

(1 of 90)

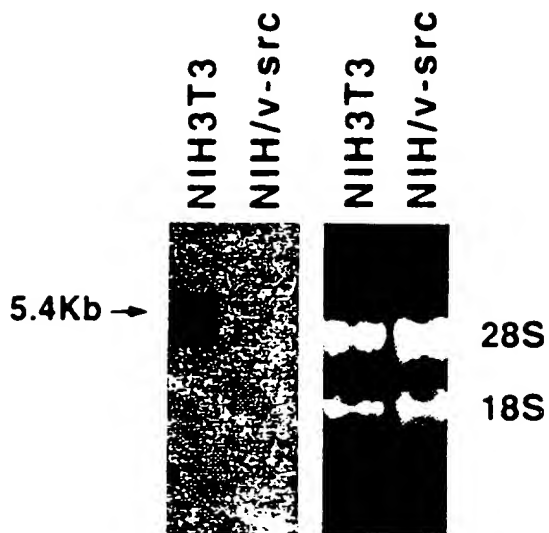


FIG.1

100T20-2E120660

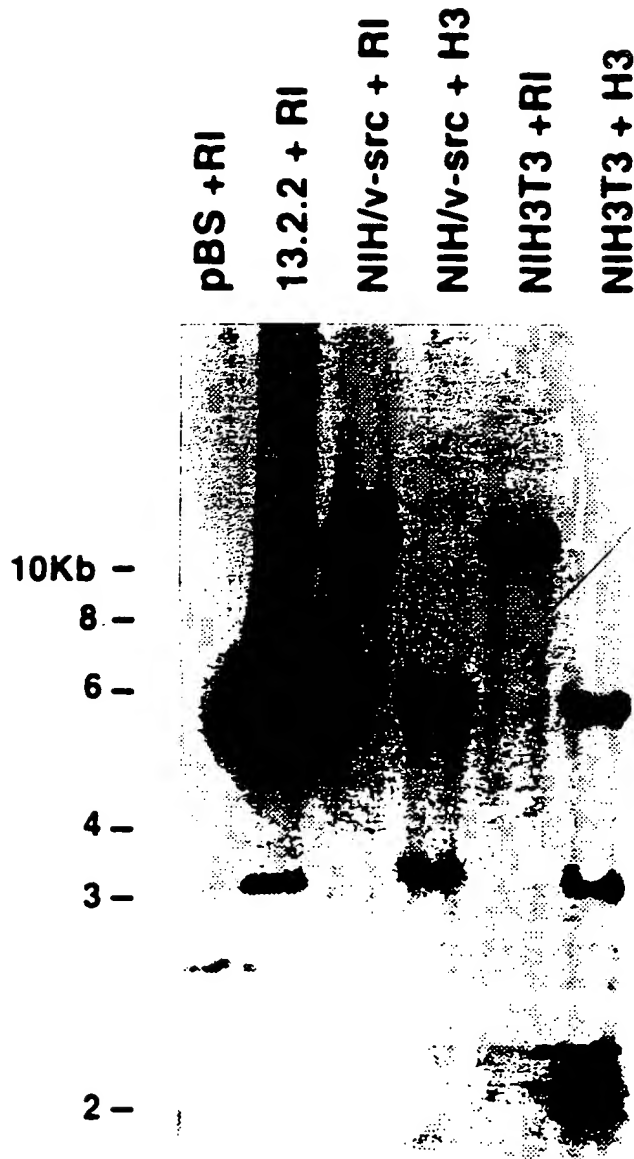


FIG.2A

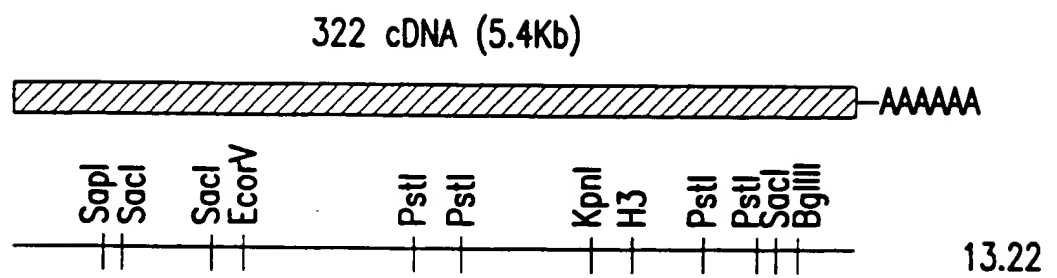


FIG.2B

FIGURE 3A

181	ggaaaagacagagccagcctcgaggagcaggagcggcgagacacagaccaggccag	60
3	gtgtcagcagactacgagaaggtggagctgccttggaaagaccaggtlgtgacctgga	120
	ggcatcgtcagaggagaagtgtgctcctttggcaacggaagtgtttgalgagaagatgga	180
	M E	2
181	agcccaccaagaagtgtgtgcagaggtccacgtgagcaccgtggagaagacagaggagga	240
3	A H Q E V V A E V E V S T V E K T E E E	22
241	gcaggaggaggaggaggtgaagggtgggtggtagaaggaacaggagaatcctt	300
23	<u>Q G G G G A E G G V V V E G T G E S L</u>	42
301	gccccctgagaaactgtgctgagccccaggaggttccccaggaaagctgagcctgctgagga	360
43	P P E K I A E P Q F V P Q E A E P A E E	62
361	gctgalgaagagcagagagatgtgtgtctctgaggagaccacactcaactgacagacct	420
63	L M K S R E M C V E G G D H T Q L T D L	82
421	aagtcctgaagagaagacgctgccccaaacaccagaaagcattgtcagtgaggtggagat	480
83	S P E E K T L P K H P E G I V S E V E M	102
481	gctgtcctctcaggaaaagaatcaaggtacagggaagtccttgaagaaaactcttcagtag	540
103	L S S Q E R I K V Q G S P L K K L F S S	122
541	ctcaggcttaagaagctgtctggaagaagcagaagggaacgaggaggtgggggaga	600
123	S G L K K L S G <u>K K Q K</u> G K R G G G G D	142
601	cgaagagcctggagaataaccaacacattcacaccgaatccccagagagtgctgatgagca	660
143	E E P G E Y Q H I H T E S P E S A D E Q	162

FIG.3A

661	gaaggagagagctctgcgltcccccaggagcctgaggagaccacgtgtctggagaa	720
163	K G E S S A S S P E E P E E I T C L E K	182
721	agggccgctggaagcaccaggatggggaagctggaagaactacttcgtggagagaa	780
183	G P L E A P R M G K L R K E L L R G E K	202
781	gaagaggaagatcaactccctgggcattccttcaaaaagatggtgacacccaagaaacggt	840
203	K R K D H S L G I L Q K D G D T Q E T V	222
841	ccgaagaccttctgagaglgacaaggaggaaagagctlggaagglcaagagcgccacctt	900
223	R R P S F S D K F E L L F K V K S A T L	242
901	glcctccactgatagcacagtgtcagaaatgcaagatgaaagtcaaaactgtlggtagga	960
243	S S T D S T V S E M Q D E V K T V G E E	262
961	acaaaagccagagaaccaaagcgtagggtggatcacttcagtgcttgggaagcactgat	1020
263	Q K P E E P K R R V D T S V S W E A L I	282
1021	ttgtgtcggatcatccaagaagagagcaaggaaggcatcctcttcagatataagaggcc	1080
283	C V G S S K K R A R K A S S S D I R G P	302
1081	aaggacactggagggggacagtcacagagcagaggaggccagcaagacaagaagccg	1140
303	R T L G G G Q S Q S R G G Q Q R Q R S R	322
1141	aacagacgtgttcctgccagcaccaggagcaggaccaagcgcaaggaagtccacc	1200
323	T D A V P A S T Q E Q D Q A Q G S S P	342
1201	cgaagcagcgggaagcccttccgaagggaaggtgtctccacttgggagtcatttaaaag	1260
343	E P A G S P S E G E G V S T W E S F K R	362

FIG.3B

1261	attagtcactccaagaaaaaatccaagtcaaaactggaagagaaaaagccggaaggac	1320
363	L V T P R K K S K S K L E E K E A G R T	382
1321	tctagttgtaggagcaggtgtgtccactgagatcgaaacgtgtagagaagaatcttggtt	1380
383	L V V G A G C P L R S N R V E K N L G F	402
1381	tccattaagaaatlcacccccgacggcggaagaaaaagggcagatgggaaggcaagaaca	1440
403	P I R N S S P D G G R K G Q M G R Q E Q	422
1441	agccactgtggaagatcaggccagtgaggatataatgaggacgagcctgatgtcccagc	1500
423	A T V E D S G P V F I N E D E P D V P A	442
1501	agtcgtgcctctgtctgagtatgatgcagtgagagaggagagaagatggaagccaggggaa	1560
443	V V P L S E Y D A V E R E K M E A Q G N	462
1561	tgcggagctgccagctgctgggctgtgtagtgtccgaggagctcagtaagactctggt	1620
463	A E L P S C W G C V V S E E L S K T L V	482
1621	ccacactgtgagtgctgcagtcattgatggaccagggcagtcaccagtgctgaagagcg	1680
483	H T V S V A V I D G T R A K T S K E E R	502
1681	gtctccttcgtggatatccgcttcctgtaacagaaaccttgaacacacagcgggagaagc	1740
503	S P S W I S A S V T E P L E H T A G E A	522
1741	catgccacctgttgaagaggtcactgaaaaagacatcattgcagaagaactcctgtgct	1800
523	M P P V E E V T E K D I I A E E T P V L	542
1801	caccagacgttaccagaggggtaagatgcccatgacgacatggtcaccagtggaagtga	1860
543	T Q T L P E G K D A H D D M V T S E V D	562

FIG.3C

1861	t t c a c c t c a g a a g c t g t g a c a g c c a c a g a g a c c t c a g a g g c t c t c c g t a c t g a a g a a g t	1920
563	F T S E A V T A T E T S E A L R T E E V	582
1921	t a c c g a a g c a t c g g g g c c g a a g a g a c c a c a g a c a t g g t g l c c g c a g t t t c c c a g c t g a c	1980
583	T E A S G A E E T T D M V S A V S Q L T	602
1981	t g a c t c c c c a g a c a c c a c a g a g g a a g c c c c a g t t c a g g a g g t a g a g g t g g t g t g c t	2040
603	D S P D T T E L A T P V Q E V E G G V L	622
2041	a g a t a c a g a a g a g a g g a g c g c c a g a c g c a g g c c a t c c t c c a a g c g t t g c a g a c a a g g t	2100
623	D I E F F R Q T Q A I L Q A V A D K V	642
2101	g a a a g a g g a g t c c c a g g t g c c t g c a a c c c a g a c t g t g c a g a g a a c g g g t c a a a a g c a c t	2160
643	K E L S Q V P A T Q T V Q R T G S K A L	662
2161	g g a g a a g g t t g a g g a g g t a g a g g a c t c c g a a g t g c t g g c t t c g g a g a a g a g a a g g a	2220
663	E K V E E V E E D S E V L A S E K E K D	682
2221	c g t t a t g c c g a a a g g a c c c g t g c a g g a a g c t g a g a g t g a g c a t c t t g c a c a g g g c t c t g a	2280
683	V M P K G P V Q E A G A E H L A Q G S E	702
2281	g a c t g g a c a g g t a c t c c a g a g a g c c t t g a a g t t c c t g a a g t c a c a g c a g a t g t a g a c c a	2340
703	T G Q A T P E S L E V P E V T A D V D H	722
2341	t g t c g c c a c g t g c c a g g t t a t c a a g c t c c a g c a g c t g a t g g a a c a g g c c g t g g c c c c t g a	2400
723	V A T C Q V I K L Q Q L M E Q A V A P E	742
2401	g t c a t c c g a a a c c t t g a c a g a c a g t g a g a c a a t g g a a g c a c t c c c t t a g c a g a t t c a g a	2460
743	S S E T L T D S E T N G S T R L A D S D	762

FIG. 3D

2461	cactgcagatgggacacagcaagatgaaaccattgacagccaggacagtaaacactgc	2520
763	T A D G T Q Q D E T I D S Q D S K A T A	782
2521	agctgtcaggaagtcacaggtcacagagaagagcggtactgtctcagaaaagagagcc	2580
783	A V E Q S Q V T E E A A T A Q K E E P	802
2581	ttcgacactacctaataatgtlccagccccaggaagaacatggggaagaaccaggaagaga	2640
803	S T L P N N V P A Q E E H G E E P G R D	822
2641	tggtcttgaaacctacacagcaagagcttgctgctgcagccgtgccgtctggcaaaagac	2700
823	V L E P T Q Q E L A A A V P V W Q K T	842
2701	tgaggtgggtcaagaggtgaggtgactgggtlggatggagaaaaagtcaaaagaagaca	2760
843	E V G Q F G E V D W L D G E K V K E E Q	862
2761	ggaggtgttgtacactctggaccaccaacagtcacaaaggctgctgatgtgacatatgacag	2820
863	E V F V H S G P N S Q K A A D V T Y D S	882
2821	tgaagtgatgggagtgccgggtgtcaggaagaaagagagtagtgaagtgcagagtccttag	2880
883	E V M G V A G C Q E K E S T E V Q S L S	902
2882	cctggaggaggagagatggaactgacgttgaaaggagagaaaaaggagacaaaagccaga	2940
903	L E E G E M E T D V E K E K R E T K P E	922
2941	gcaagtgaagaaggtgagcaggaaacagccgctcctgagcatgaaaggaactacgg	3000
923	Q V S E E G E Q E T A A P E H E R N Y G	942
3001	gaagccagtccttgacacttgacatgccagctcagagagggggaaggcactgggaagcct	3060
943	K P V L T L D M P S S E R G K A L G S L	962

FIG.3E

3061 3120
963 982
tggaggaagcccttcttccagaccaagacaaagcaggttgcataagaggttcaagtcca
G G S P S I P D Q D K A G C I E V Q V Q

3121 3180
983 1002
aagcctggacacacaacagtcactcaaacagcagaagctgtggaagaggtcatagaaacggt
S L D I T V T Q T A E A V E K V I E T V

3181 3240
1003 1002
tgtgatttcagagacaggtgaaagtcagagtgtaggtgcacacttattaccagctga
V I S E T G E S P E C V G A H L L P A E
→Zn-finger→

3241 3300
1023 1042
gaagtcctctgcgaacgggtggccactggactcttcagcatgcagaggacacggtaccct
K S S A T G G H W T L Q H A E D T V P L

3301 3360
1043 1062
ggggcctgagtcacagcagaatccatcccaalcalagtaactcctgcctgaaagcac
G P F S Q A E S I P I I V T P A P E S T

3361 3420
1063 1082
cctacatcctgacctacaaggagaaataagcgcacatccagagagcagatcagaggaaga
L H P D L Q G E I S A S Q R E R S E E E

3421 3480
1083 1102
ggacaagccagatgctggctcctgatgctgacggcaaggagagtagacagcaatcgacaaagt
D K P D A G P D A D G K E S T A I D K V

3481 3540
1103 1122
cctcaaggctgaacctgagatccttggaaacttgagagtaagagcaacaagattgtgctgaa
L K A E P E I L E L E S K S N K I V L N

3541 3600
1123 1142
cglcattcagacagccggtgaccagttcgacgtacagaaacagccccgaaactcatgc
V I Q T A V D Q F A R T E I A P E T H A

3601 3660
1143 1162
ttatgattcacagaccaggttccctgcaatgcgcttgacagcagggagcccaacagatg
Y D S Q T Q V P A M R L D S R E P N R C

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FIG.3F

3661	ctggacaaaaatgaaagttgccaaagtgaacacaccagtgccgcagccccagagagactt	3720
1163	W T K M K V A K M K H P V P Q P R E D L	1182
3721	gcaaglcctgaccgttctggaggcatggctcagctcggaataatgcttgccgcgcltgca	3780
1183	Q V L T V L E A W L S S E M L A A L A V	1202
3781	tgaagcgccggtgtcaaaagtaagcattgagaagctgcctcctcaacccaagatcaaaa	3840
1203	E S A G V K V S I E K L P P Q P K D Q K	1222
3841	ggagcatgctgctgagggccctcagctccaaagctagccccaggcagagcagtgctcgg	3900
1223	E H A A D G P Q L Q S I A Q A E A V S G	1242
3901	aaacctaaccaagaalccccagacaccaacggaacaaagctaaccgagagcgatgccc	3960
1243	N I I K F S P D I N G P K L T E E R C P	1262
3961	ccaaaagttgaggtccagggaagaagaatgtctaccaagtcagtcacaaagagaacaggcc	4020
1263	Q K L R S R K K K C L P S Q S K R T R P	1282
4021	caggcagaagaggacctgcaggagccaaaggagacctggcagaatcctaagatgttagt	4080
1283	R Q K R T C R S Q R E T W Q N P K M L V	1302
4081	tgctcattgtacatctgtaagaccagaatgtgaaaaacaagtcacagaacaagatgctgct	4140
1303	A H C T S V R P E C E N K S Q N K M L L	1322
4141	gttgggaccttggaaccaagatttcagagcccatgagatccagagagcagggccgtccaat	4200
1323	L G P W T K I S E P M R S R E Q G R P M	1342
4201	gatttccaccagtagagacccccgacaattctgaggcttcacggagctagagccagc	4260
1343	I S T Q *	1346

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FIG.3G

4261	taacatttcctcggttcaagactgcctttagttgccccttgatgccgcgtcgtgtatttc	4320
4321	ggatttaaggctcctgcgttctcaacctggaaccaallctgccalacctagttccacttct	4380
4381	caaacggagcatcctcctttatgtatttatatgtatgtttalgtagtcctcctcctgt	4440
4441	acctatlgatalattttttctaacggttlaagcacatgctttttgtattatgaatatata	4500
4501	acgggtgtgcagccatagcgacgclttgaaaagctccaagcctcaactgtaacctgcagc	4560
4561	aaacagataaacattcctgggcaagaagagacaagcttlttlaaaglttactlgatgcttag	4620
4621	atctgtgggtctctagtcctctgaaagtgggtgttttctctatgcacagcgagctcagaaa	4680
4681	<u>laaana</u> ccccatttltgnaacatccaggatgtcccaataltaccatgatttttccccct	4720
4721	ttttgctaatccagtcacaggttggaaagaagltcctcctgtgltcagattlaagccctgtct	4780
4781	cttaatgataaggacaaatgagtggtgcctaaaggccatgagatgttctctaalgcagaagg	4840
4741	aatcgttgtacgttttttgtatgtactctctatgctggaccgaaltcatatgcagat	4900
4901	cgaagtgagtcctgtlclllacagatgggtattttgatagatactggagtttgtctgtgtt	4960
4961	alatcgtgccttcttlaagaacaatgttgcatattgttcccttggataaatlgtgat	5020
5021	ttgacaactgatttlaaalaagacatatatttgactac(A).	

FIG. 3H

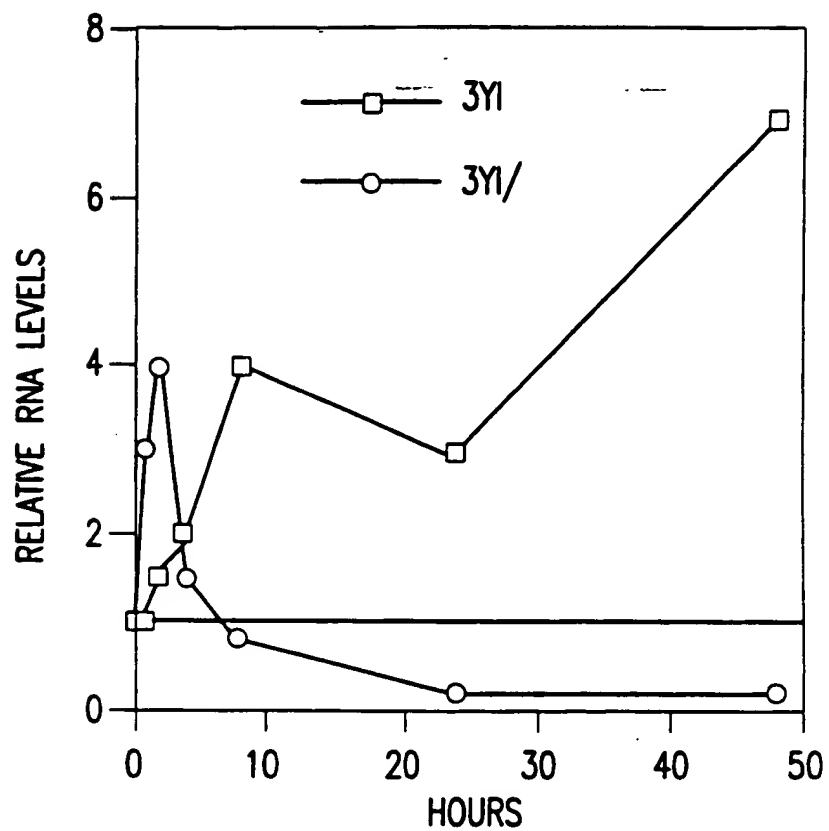


FIG.4A

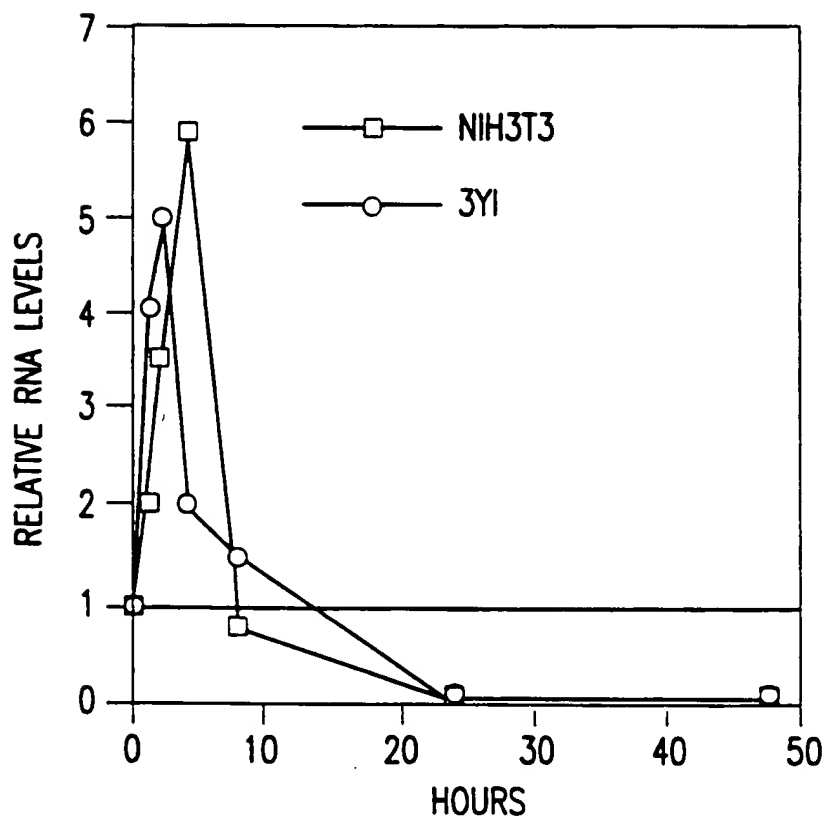


FIG.4B

rat-6/mos
rat-6/src
rat-6/myc
rat-6/neu
rat-6/ras
rat-6/raf-1
rat-6

FIG.5

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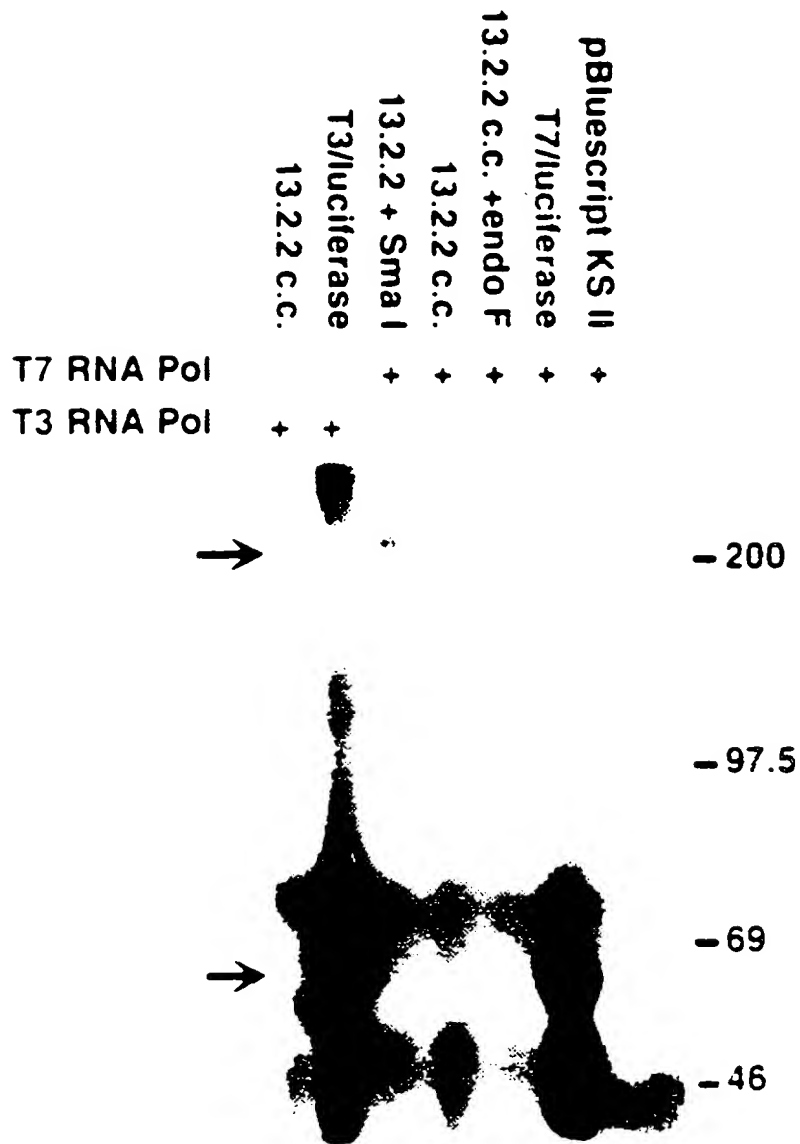


FIG.6

00002432-071004

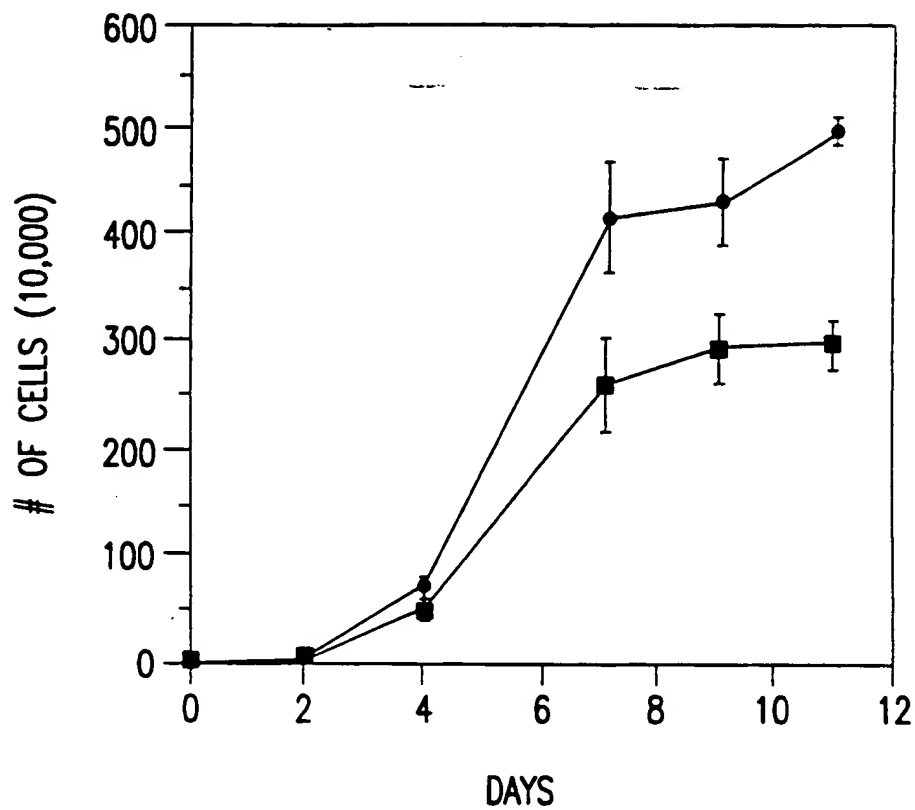


FIG.7A

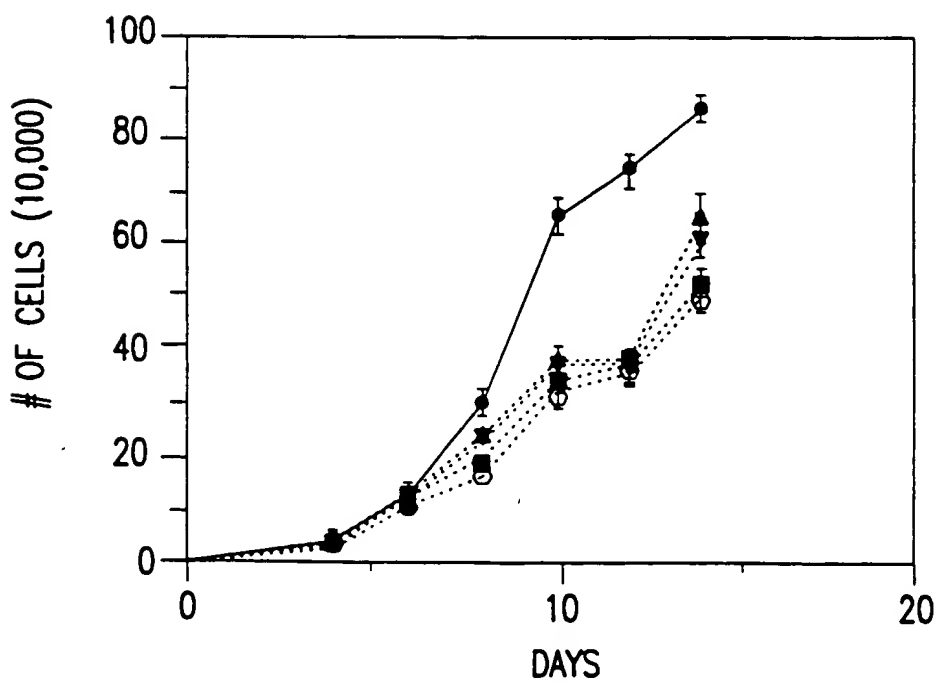


FIG.7B

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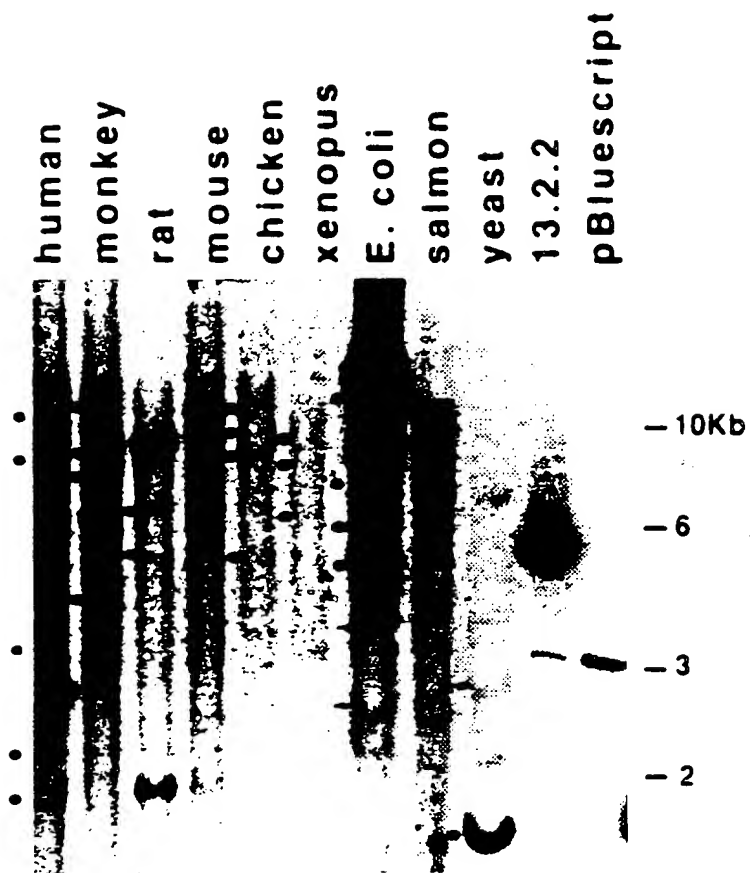


FIG.8

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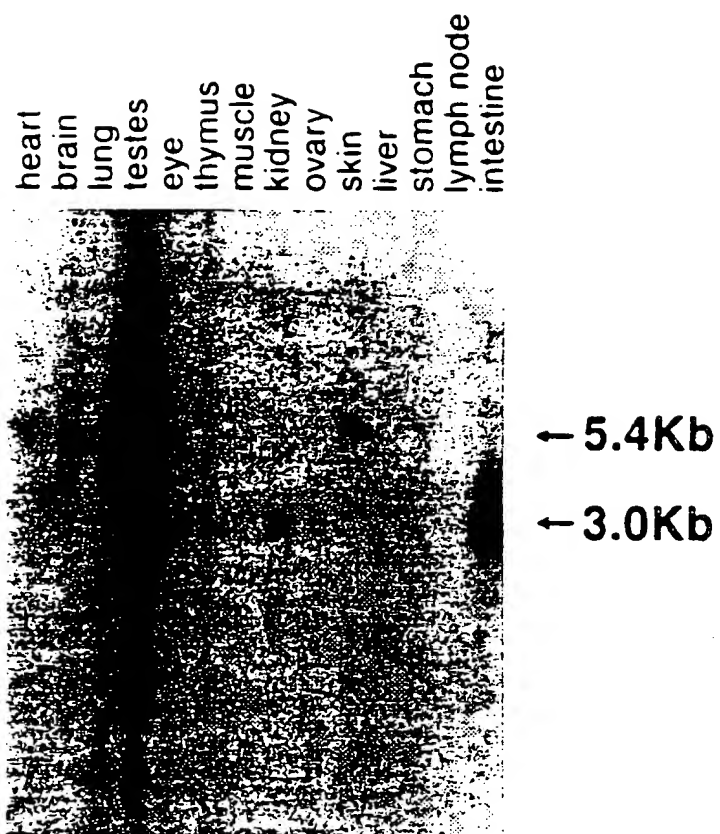


FIG.9

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5' ATG GGC GCA GGC AGT TCC ACC GAG CAG CGG AGC CCC GAG CAG CCG GCG GGG AGC

M G A G S S T E Q R S P E Q P A G S

GAC ACG CCG AGC GAG CTG GTG CTC AGT GGC CAT GGG CCC GCA GCT GAA GCC TCG

D T P S E L V L S G H G P A A E A S

GGA GCA GCT GGA GAC CCC GCC GAC GCG GAC CCC GCC ACC AAG CTC CCA CAG AAG

G A A G D P A D A D P A T K L P Q K

AAT GGC CAG CTG TCT TCT GTC AAC GGC GTA GCT GAA CAA GGA GAT GTC CAT GTC

N G Q L S S V N G V A E Q G D V H V

CAA GAG GAA AAC CAG GAG GGG CAG GAG GAA GAA GTC GTT GAT GAG GAT GTT GGA

Q E E N Q E G Q E E E V V D E D V G

CAG CGA GAG TCA GAA GAT GTG AGA GAA AAA GAC CGA GTT GAA GAA ATG GCG GCC

Q R E S E D V R E K D R V E E M A A

AAC TCC ACA GCT GTT GAA GAT ATC ACA AAG GAT GGG CAG GAG GAG ACA TCA GAA

N S T A V E D I T K D G Q E E T S E

ATA ATT GAA CAG ATC CCT GCT TCA GAA AAC AAT GTG GAA GAA ATG GTA CAG CCT

I I E Q I P A S E N N V E E M V Q P

FIG.11A

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441	450	459	468	477	486
GCT GAG TCC CAG GCT AAT GAT GTT GGC TTC AAG AAA GTA TTT AAA TTT GTT GGT					
A E S Q A N D V G F K K V F K F V G					
495	504	513	522	531	540
TTT AAA TTC ACG GTG AAG AAG GAT AAA AAT GAA AAG TCA GAT ACT GTC CAA CTA					
F K F T V K K D K N E K S D T V Q L					
549	558	567	576	585	594
CTC ACT GTC AAG AAG GAT GAA GGC GAA GGG GCA GAA GCC TCT GTC GGA GCT GGA					
L T V K K D E G E G A E A S V G A G					
603	612	621	630	639	648
GAC CAC CAG GAG CCC AGT GTG GAG ACT GCC GTC GGA GAG TCA GCA TCC AAA GAA					
D H Q E P S V E T A V G E S A S K E					
657	666	675	684	693	702
AGT GAG CTG AAG CAA TCC ACA GAG AAG CAA GAA GGC ACC CTG AAG CAA GAA CAG					
S E L K Q S T E K Q E G T L K Q E Q					
711	720	729	738	747	756
AGC AGC ACA GAA ATC CCC CTT CAA GCC GAA TCT GAT CAA GCG GCT GAG GAA GAA					
S S T E I P L Q A E S D Q A A E E E					
765	774	783	792	801	810
GCC AAA GAT GAA GGA GAA GAA AAA CAA GAG AAA GAG CCC ACC AAG TCC CCA GAA					
A K D E G E E K Q E K E P T K S P E					
819	828	837	846	855	864
TCC CCG AGC AGC CCA GTC AAC AGT GAG ACA ACA TCT TCC TTC AAG AAG TTC TTC					
S P S S P V N S E T T S S F K K F F					

FIG.11B

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873	882	891	900	909	918
ACT CAC GGT TGG GCC GGC TGG CGC AAG AAG ACC AGC TTC AAG AAA TCA AAA GAG					

T H G W A G W R K K T S F K K S K E					
927	936	945	954	963	972
GAT GAT CTG GAA ACT GCC GAG AAG AGA AAG GAG CAA GAG GCA GAA AAA GTA GAC					

D D L E T A E K R K E Q E A E K V D					
981	990	999	1008	1017	1026
GAG GAA GAA AAG GAA AAG ACA GAG CCA GCC TCG GAG GAG CAG GAG CCG GCA GAA					

E E E K E K T E P A S E E Q E P A E					
1035	1044	1053	1062	1071	1080
GAC ACA GAC CAG GCC AGG TTG TCA GCA GAC TAC GAG AAG GTG GAG CTG CCT TTG					

D T D Q A R L S A D Y E K V E L P L					
1089	1098	1107	1116	1125	1134
GAA GAC CAG GTT GGT GAC CTG GAG GCA TCG TCA GAG GAG AAG TGT GCT CCT TTG					

E D Q V G D L E A S S E E K C A P L					
1143	1152	1161	1170	1179	1188
GCA ACG GAA GTG TTT GAT GAG AAG ATG GAA GCC CAC CAA GAA GTT GTT GCA GAG					

A T E V F D E K M E A H Q E V V A E					
1197	1206	1215	1224	1233	1242
GTC CAC GTG AGC ACC GTG GAG AAG ACA GAG GAG GAG CAG GGA GGA GGA GGA GAG					

V H V S T V E K T E E E Q G G G G E					
1251	1260	1269	1278	1287	1296
GCT GAA GGG GGC GTG GTG GTA GAA GGA ACA GGA GAA TCC TTG CCC CCT GAG AAA					

A E G G V V V E G T G E S L P P E K					

FIG.11C

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1305	1314	1323	1332	1341	1350
CTG GCT GAG CCC	CAG GAG GTC CCC	CAG GAA GCT GAG	CCT GCT GAG GAG	CTG ATG	
---	---	---	---	---	---
L A E P	Q E V P	Q E A E	P A E E	L M	
1359	1368	1377	1386	1395	1404
AAG AGC AGA GAG	ATG TGT GTC TCT	GGA GGA GAC CAC	ACT CAA CTG ACA	GAC CTA	
---	---	---	---	---	---
K S R E	M C V S	G G D H	T Q L T	D L	
1413	1422	1431	1440	1449	1458
AGT CCT GAA GAG	AAG ACG CTG CCC	AAA CAC CCA GAA	GGC ATT GTC AGT	GAG GTG	
---	---	---	---	---	---
S P E E	K T L P	K H P E	G I V S	E V	
1467	1476	1485	1494	1503	1512
GAG ATG CTG TCC	TCT CAG GAA AGA	ATC AAG GTA CAG	GGA AGT CCC TTG	AAG AAA	
---	---	---	---	---	---
E M L S	S Q E R	I K V Q	G S P L	K K	
1521	1530	1539	1548	1557	1566
CTC TTC AGT AGC	TCA GGC TTA AAG	AAG CTG TCT GGG	AAG AAG CAG AAG	GGG AAA	
---	---	---	---	---	---
L F S S	S G L K	K L S G	K K Q K	G K	
1575	1584	1593	1602	1611	1620
CGA GGA GGT GGG	GGA GAC GAA GAG	CCT GGA GAA TAC	CAA CAC ATT CAC	ACC GAA	
---	---	---	---	---	---
R G G G	G D E E	P G E Y	Q H I H	T E	
1629	1638	1647	1656	1665	1674
TCC CCA GAG AGT	GCT GAT GAG CAG	AAG GGA GAG AGC	TCT GCG TCG TCC	CCC GAG	
---	---	---	---	---	---
S P E S	A D E Q	K G E S	S A S S	P E	
1683	1692	1701	1710	1719	1728
GAG CCT GAG GAG	ACC ACG TGT CTG	GAG AAA GGG CCG	CTG GAA GCA CCC	CAG GAT	
---	---	---	---	---	---
E P E E	T T C L	E K G P	L E A P	Q D	

FIG.11D

FIG.11D

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1737	1746	1755	1764	1773	1782
GGG GAA GCT GAG	GAA GGA ACT ACT_TCC	GAT GGA GAG_AAG	AAG AGA GAA GGG	ATC	
G E A E E G T T S D G E K K R E G I					
1791	1800	1809	1818	1827	1836
ACT CCC TGG GCA TCC TTC AAA AAG ATG GTG ACA CCC AAG AAA CGG GTC CGA AGA					
T P W A S F K K M V T P K K R V R R					
1845	1854	1863	1872	1881	1890
CCT TCT GAG AGT GAC AAG GAG GAA GAG CTG GAG AAG GTC AAG AGC GCC ACC TTG					
P S F S D K E E E L E K V K S A T L					
1899	1908	1917	1926	1935	1944
TCC TCC ACT GAT AGC ACA GTG TCA GAA ATG CAA GAT GAA GTC AAA ACT GTT GGT					
S S T D S T V S E M Q D E V K T V G					
1953	1962	1971	1980	1589	1998
GAG GAA CAA AAG CCA GAG GAA CCA AAG CGT AGG GTG GAT ACT TCA GTG TCT TGG					
E E Q K P E E P K R R V D T S V S W					
2007	2016	2025	2034	2043	2052
GAA GCA CTG ATT TGT GTC GGA TCA TCC AAG AAG AGA GCA AGG AAG GCA TCC TCT					
E A L I C V G S S K K R A R K A S S					
2061	2070	2079	2088	2097	2106
TCA GAT GAT GAA GGA GGG CCA AGG ACA CTG GGA GGG GAC AGT CAC AGA GCA GAG					
S D D E G G P R T L G G D S H R A E					
2115	2124	2133	2142	2151	2160
GAG GCC AGC AAA GAC AAA GAA GCC GGA ACA GAC GCT GTT CCT GCC AGC ACC CAG					
E A S K D K E A G T D A V P A S T Q					

FIG.11E

FOOTNOTES: 2007-2052

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2169	2178	2187	2196	2205	2114
GAG CAG GAC CAA GCG CAA GGA AGT TCC TCA CCC GAG CCA GCG GGA AGC CTT TCC					
E Q D Q A Q G S S S P E P A G S P S					
2223	2232	2241	2250	2259	2268
GAA GGG GAA GGT GTC TCC ACT TGG GAG TCA TTT AAA AGA TTA GTC ACT CCA AGA					
E G E G V S T W E S F K R L V T P R					
2277	2286	2295	2304	2313	2322
AAA AAA TCC AAG TCA AAA CTG GAA GAG AAA GCC GAA GAC TCT AGT GTA GAG CAG					
K K S K S K L E E K A E D S S V E Q					
2331	2340	2349	2358	2367	2376
TTG TCC ACT GAG ATC GAA CCG AGT AGA GAA GAA TCT TGG GTT TCC ATT AAG AAA					
L S T E I E P S R E E S W V S I K K					
2385	2394	2403	2412	2421	2430
TTC ATC CCC GGA CGG CGG AAG AAA AGG GCA GAC GGG AAG CAA GAA CAA GCC ACT					
F I P G R R K K R A D G K Q E Q A T					
2439	2448	2457	2466	2475	2484
GTG GAA GAC TCA GGG CCA GTG GAG ATA AAT GAG GAC GAC CCT AAT GTC CCA GCC					
V E D S G P V E I N E D D P N V P A					
2493	2502	2511	2520	2529	2538
GTC GTG CCT CTG TCT GAG TAT AAT GCA GTG GAG AGG GAG AAG ATG GAA GCC CAG					
V V P L S E Y N A V E R E K M E A Q					
2547	2556	2565	2574	2583	2592
GGG AAT ACG GAG CTG CCC CAG CTG CTG GGG GCT GTG TAC GTG TCC GAG GAG CTC					
G N T E L P Q L L G A V Y V S E E L					

FIG.11F

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2601	2610	2619	2628	2637	2646
AGT AAG ACT CTG	GTC CAC ACT GTG	AGT GTC GCA GTC	ATT GAT GGG ACC	AGG GCA	

S K T L V H T V S V A V I D G T R A					

2655	2664	2673	2682	2691	2700
GTC ACC AGT GTC	GAA GAG CGG TCT	CCT TCG TGG ATA	TCC GCT TCC GTA	ACA GAA	

V T S V E E R S P S W I S A S V T E					

2790	2718	2727	2736	2745	2754
CCT CTT GAA CAC	ACA GCG GGA GAA	GCC ATG CCA CCT	GTT GAA GAG GTC	ACT GAA	

P L E H T A G E A M P P V E E V T E					

2763	2772	2781	2790	2799	2808
AAA GAC ATC ATT	GCA GAA GAA ACT	CCT GTG CTC ACC	CAG ACG TTA CCA	GAG GGT	

K D I I A E E T P V L T Q T L P E G					

2817	2826	2835	2844	2853	2862
AAA GAT GCC CAT	GAC GAC ATG GTC	ACC AGT GAA GTG	GAT TTC ACC TCA	GAA GCT	

K D A H D D M V T S E V D F T S E A					

2871	2880	2889	2898	2907	2916
GTG ACA GCC ACA	GAG ACC TCA GAG	GCT CTC CGT ACT	GAA GAA GTT ACC	GAA GCA	

V T A T E T S E A L R T E E V T E A					

2925	2934	2943	2952	2961	2970
TCG GGG GCC GAA	GAG ACC ACA GAC	ATG GTG TCC GCA	GTT TCC CAG CTG	ACT GAC	

S G A E E T T D M V S A V S Q L T D					

2979	2988	2997	3006	3015	3024
TCC CCA GAC ACC	ACA GAG GAA GCC	ACC CCA GTT CAG	GAG GTA GAG AGT	GGT GTG	

S P D T T E E A T P V Q E V E S G V					

FIG.11G

FIG.11G

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3033	3042	3051	3060	3069	3078
CTA GAT ACA GAA	GAA GAG GAG CGC	CAG ACG CAG GCC	ATC CTC CAA GCC	GTT GCA	

L D T E	E E E R	Q T Q A	I L Q A	V A	

3087	3096	3105	3114	3123	3132
GAC AAG GTG AAA	GAG GAG TCC CAG	GTG CCT GCA ACC	CAG ACT GTG CAG	AGA ACG	

D K V K	E E S Q	V P A T	Q T V Q	R T	

3141	3150	3159	3168	3177	3186
GGG TCA AAA GCA	CTG GAG AAG GTT	GAG GAG GTA GAG	GAG GAC TCC GAA	GTG CTG	

G S K A	L E K V	E E V E	E D S E	V L	

3195	3204	3213	3222	3231	3240
GCT TCG GAG AAA	GAG AAG GAC GTT	ATG CCG AAA GGA	CCC GTG CAG GAA	GCT GGA	

A S E K	E K D V	M P K G	P V Q E	A G	

3195	3258	3267	3276	3285	3294
GCT GAG CAT CTT	GCA CAG GGC TCT	GAG ACT GGA CAG	GCT ACT CCA GAG	AGC CTT	

A E H L	A Q G S	E T G Q	A T P E	S L	

3303	3312	3321	3330	3339	3348
GAA GTT CCT GAA	GTC ACG GCA GAT	GTA GAC CAT GTC	GCC ACG TGC CAG	GTT ATC	

E V P E	V T A D	V D H V	A T C Q	V I	

3357	3366	3375	3384	3393	3402
AAG CTC CAG CAG	CTG ATG GAA CAG	GCC GTG GCC CCT	GAG TCA TCC GAA	ACC TTG	

K L Q Q	L M E Q	A V A P	E S S E	T L	

3411	3420	3429	3438	3447	3456
ACA GAC AGT GAG	ACA AAT GGA AGC	ACT CCC TTA GCA	GAT TCA GAC ACT	GCA GAT	

T D S E	T N G S	T P L A	D S D T	A D	

FIG.11H

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3465	3474	3483	3492	3501	3510
GGG ACA CAG CAA GAT GAA ACC ATT GAC AGC CAG GAC AGT AAA GCC ACT GCA GCT					
G T Q Q D E T I D S Q D S K A T A A					
3519	3528	3537	3546	3555	3564
GTC AGG CAG TCA CAG GTC ACA GAA GAA GAG GCG GCT ACT GCT CAG AAA GAG GAG					
V R Q S Q V T E E E A A T A Q K E E					
3573	3582	3591	3600	3609	3618
CCT TCG ACA CTA CCT AAT AAT GTT CCA GCC CAG GAA GAA CAT GGG GAA GAA CCA					
P S T L P N N V P A Q E E H G E E P					
3627	3636	3645	3654	3663	3672
GGA AGA GAT GTT CTT GAA CCT ACA CAG CAA GAG CTT ACT GCT GCA GCC GTG CCC					
G R D V L E P T Q Q E L T A A A V P					
3681	3690	3699	3708	3717	3726
GTT CTG GCA AAG ACT GAG GTG GGT CAA GAG GGT GAG GTT GAC TGG TTG GAT GGA					
V L A K T E V G Q E G E V D W L D G					
3735	3744	3753	3762	3771	3780
GAA AAA GTC AAA GAA GAA CAG GAG GTG TTT GTA CAC TCT GGA CCC AAC AGT CAA					
E K V K E E Q E V F V H S G P N S Q					
3789	3798	3807	3816	3825	3834
AAG GCT GCT GAT GTG ACA TAT GAC AGT GAA GTG ATG GGA GTG GCC GGG TGT CAG					
K A A D V T Y D S E V M G V A G C Q					
3843	3852	3861	3870	3879	3888
GAA AAG GAG AGT ACT GAA GTG CAG AGT CTT AGC CTG GAG GAG GGA GAG ATG GAA					
E K E S T E V Q S L S L E E G E M E					

FIG.111

3897	3906	3915	3924	3933	3942
ACT GAC GTT GAA AAG GAG AAA AGG GAG ACA AAG CCA GAG CAA GTG AGT GAA GAA					

T D V E K E K R E T K P E Q V S E E					
3951	3960	3969	3978	3987	3996
GGT GAG CAG GAA ACA GCC GCT CCT GAG CAT GAA GGA ACC TAC GGG AAG CCA GTC					

G E Q E T A A P E H E G T Y G K P V					
4005	4014	4023	4032	4041	4050
CTG ACA CTT GAC ATG CCC AGC TCA GAG AGG GGG AAG GCA CTG GGA AGC CTT GGA					

L T L D M P S S E R G K A L G S L G					
4059	4068	4077	4086	4095	4104
GGA AGC CCT TCT CTC CCA GAC CAA GAC AAA GCA GGT TGC ATA GAG GTT CAA GTT					

G S P S L P D Q D K A G C I E V Q V					
4113	4122	4131	4140	4149	4158
CAA AGC CTG GAC ACA ACA GTC ACT CAA ACA GCA GAA GCT GTG GAA AAG GTC ATA					

Q S L D T T V T Q T A E A V E K V I					
4167	4176	4185	4194	4203	4212
GAA ACG GTT GTG ATT TCA GAG ACA GGT GAA AGT CCA GAG TGT GTA GGT GAC CAC					

E T V V I S E T G E S P E C V G A H					
4221	4230	4239	4248	4257	4266
TTA TTA CCA GCT GAG AAG TCC TCT GCA ACG GGT GGC CAC TGG ACT CTT CAG CAT					

L L P A E K S S A T G G H W T L Q H					
4275	4284	4293	4902	4311	4320
GCA GAG GAC ACG GTA CCC CTG GGG CCT GAG TCT CAG GCA GAA TCC ATC CCA ATC					

A E D T V P L G P E S Q A E S I P I					

FIG.11J

4329	4338	4347	4356	4365	4374
ATA GTA ACT CCT GCT CCT GAA AGC ACC CTA CAT CCT GAC CTA CAA GGA GAA ATA					
I V T P A P E S T L H P D L Q G E I					
4383	4392	4401	4410	4419	4428
AGC GCA TCC CAG AGA GAG CGA TCA GAG GAA GAG GAC AAG CCA GAT GCT GGT CCT					
S A S Q R E R S E E E D K P D A G P					
4437	4446	4455	4464	4473	4482
GAT GCT GAC GGC AAG GAG AGT ACA GCA ATC GAA AAA GTC CTC AAG GCT GAA CCT					
D A D G K E S T A I E K V L K A E P					
4491	4500	4509	4518	4527	4536
GAG ATC CTG GAA CTT GAG AGT AAG AGC AAC AAG ATT GTG CTG AAC GTC ATT CAG					
E I L E L E S K S N K I V L N V I Q					
4545	4554	4563	4572	4581	4590
ACA GCC GTT GAC CAG TTC GCA CGT ACA GAA ACA GCC CCC GAA ACT CAT GCT TAT					
T A V D Q F A R T E T A P E T H A Y					
4599	4608	4617	4626	4635	4644
GAT TCA CAG ACC CAG GTT CCT GCA TGC AGG CTT GAC AGC AGG GAG CCC AAC AGA					
D S Q T Q V P A C R L D S R E P N R					
4653	4662	4671	4680	4689	4698
TGC TGG ACA AAA ATG AAA GAT GCC AAG ATG AAA CAC CCA GTG CCG CAG CCC AGA					
C W T K M K D A K M K H P V P Q P R					
4707	4716	4725	4734	4743	4752
GAG GAC TTG CAA GTC CTG ACC GTT CTG GAG GCA TGG GCT CAG CCT CGG AAA TGC					
E D L Q V L T V L E A W A Q P R K C					

FIG.11K

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4761 4770 4779 4788 4797 4806
TTG CCG CGC TTG CAG TTG AAA GCG CCG GTG TCA AAG TAA GCA TTG AGA AGC TGC

L P R L Q L K A P V S K *

4815 4824 4833 4842 4851 4860
CTC CTC AAC CCA AAG ATC CAA AAG GAG CAT GCT GCT GAT GGC CCT CAG CTC CAA

4869 4878 4887 4896 4905 4914
AGC TTA GCC CAG GCA GAG GCC AGT GCC TCT GGA AAC CTA ACC AAA GAA TCC CCA

4923 4932 4941 4950 4959 4968
GAC ACC ACC GGA CCA AAG CTA ACC GAG GAG GGC GAT CCC CCA AAA GTT CAG GTC

4977 4986 4995 5004 5013 5022
CAG GAA GAA GAA ATG TCT ACC AAG TCA GTC AAA GAG AAC AAG GCC CAG GCA GAA

5031 5040 5049 5058 5067 5076
GAG GAC CTG CAG GAG CCA AAG GGA GAC CTG GCA GAA TCC TCC GAT GTT AGT TGC

5085 5094 5103 5112 5121 5130
TCA TTG TAC ATC TGT AAG ACC AGA ATG TGA AAA CAA GTC ACA GAA CAA GAT GCT

5139 5148 5157 5166 5175 5184
GCT GTT GGG ACC TTG AGA CCA AGA TTT CAG AGC CCA TGA CAT CCA GAG AGC AGG

5193
GCC GTC CAA TGA TTT C 3'

FIG.11L

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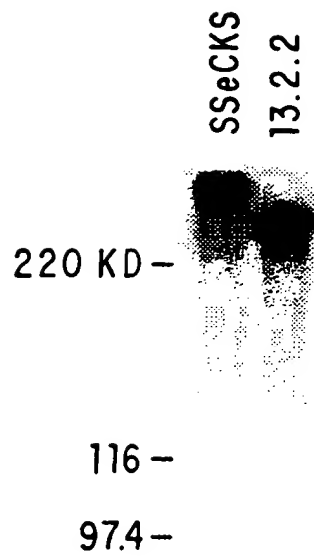
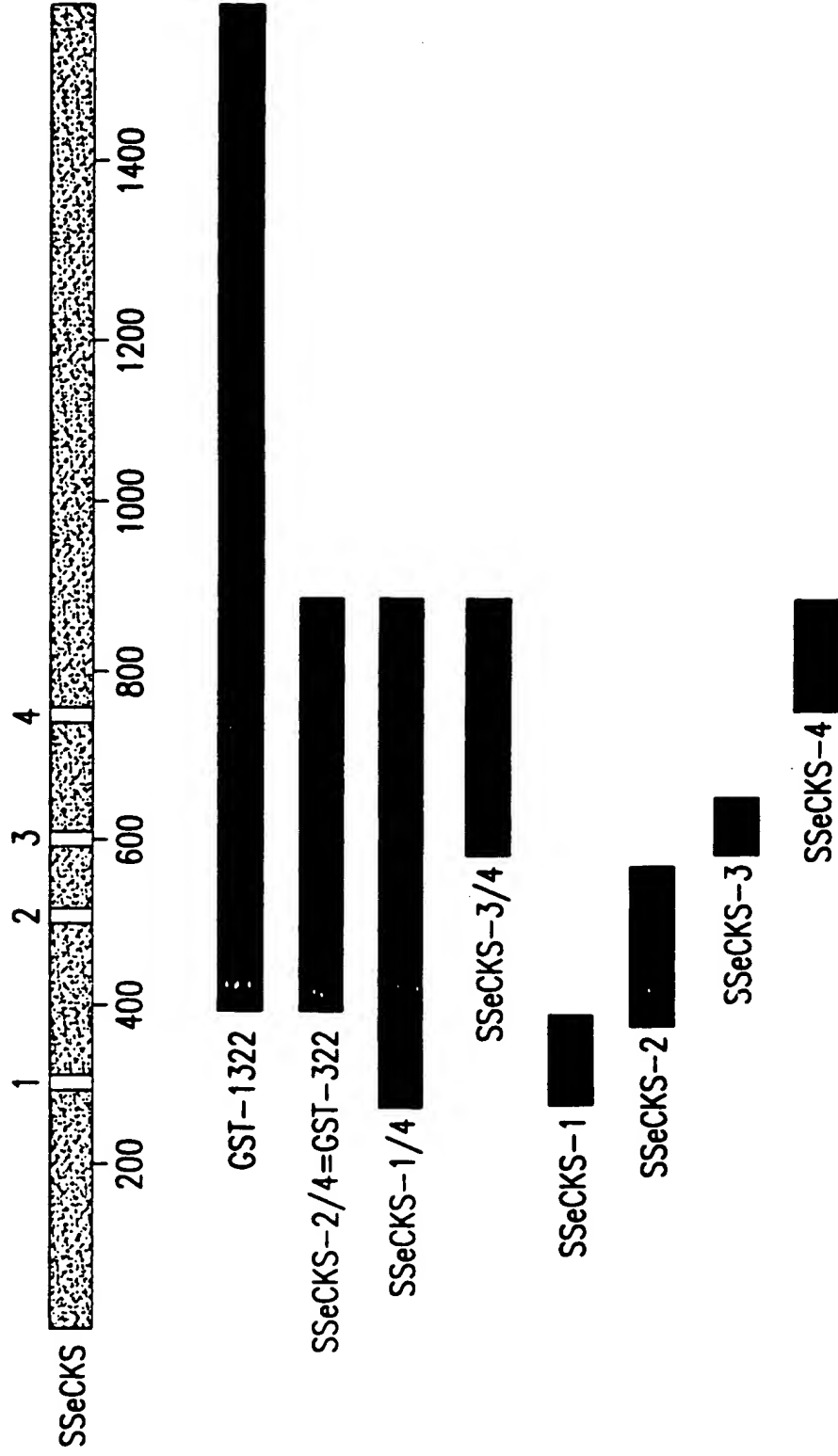


FIG.12

FOOTING SHEET



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FIG.13A

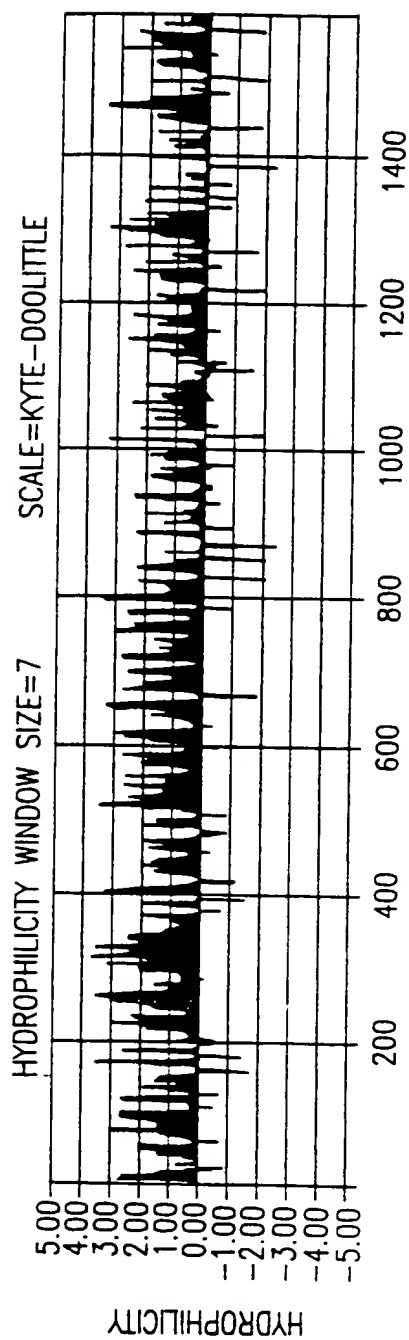


FIG.13B



FIG.13C

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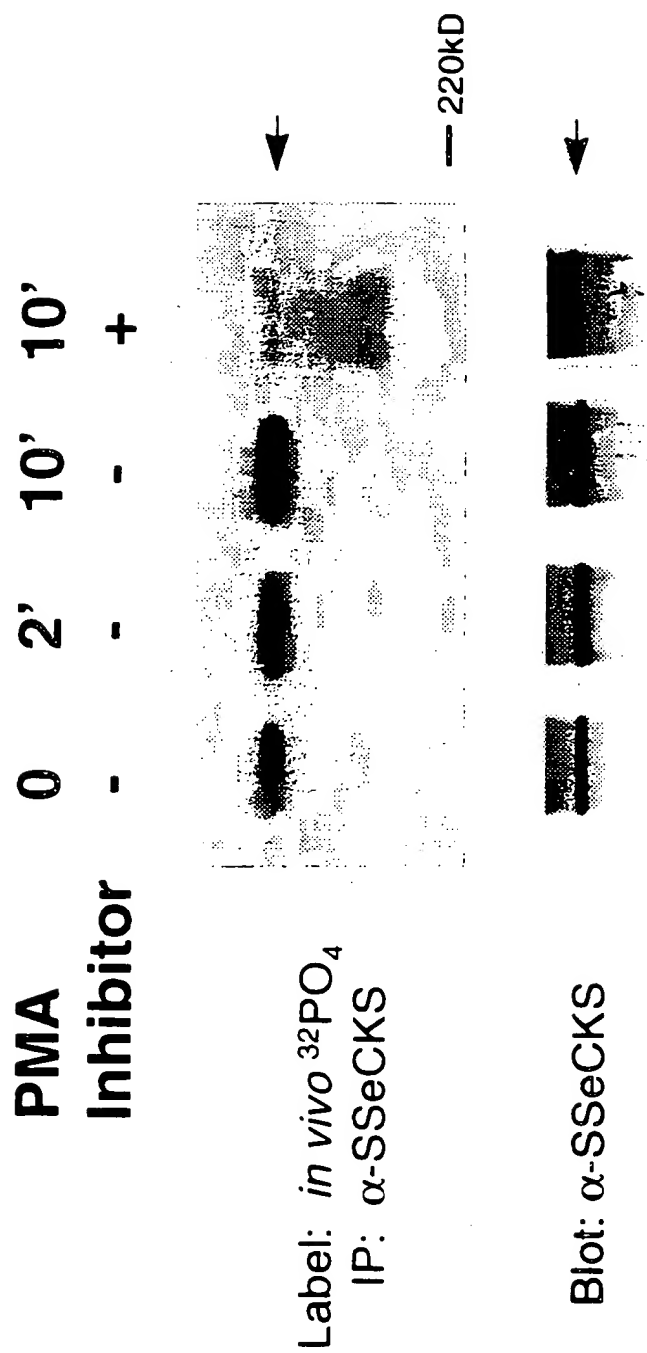


FIG.14

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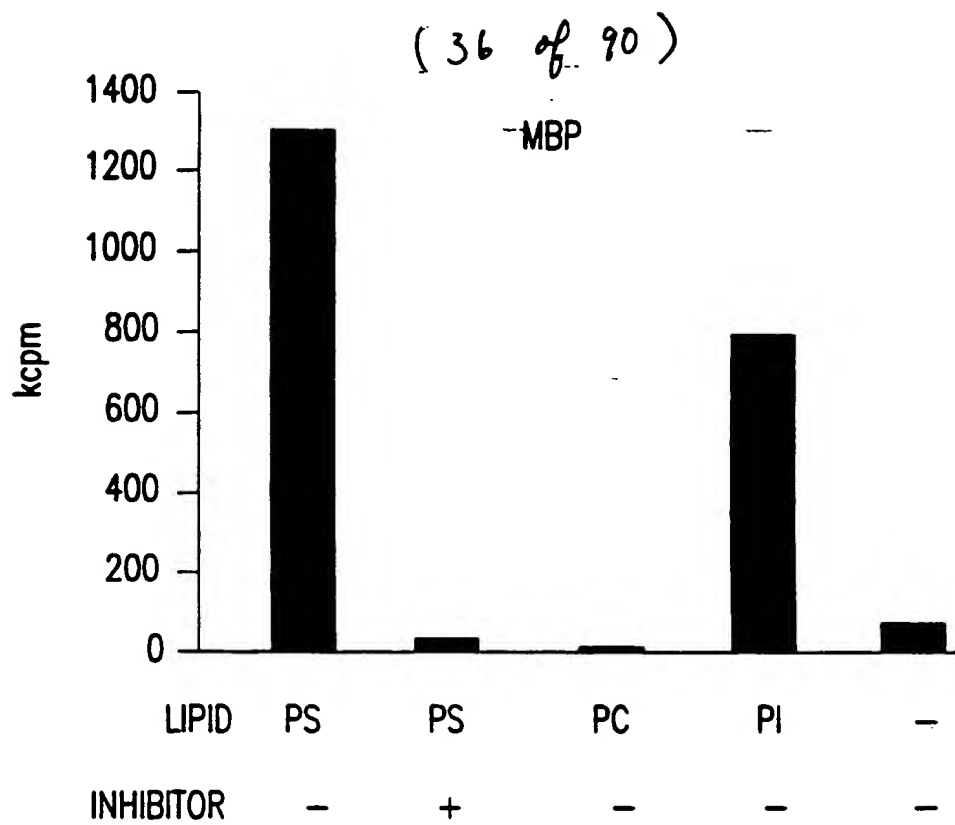


FIG.16A

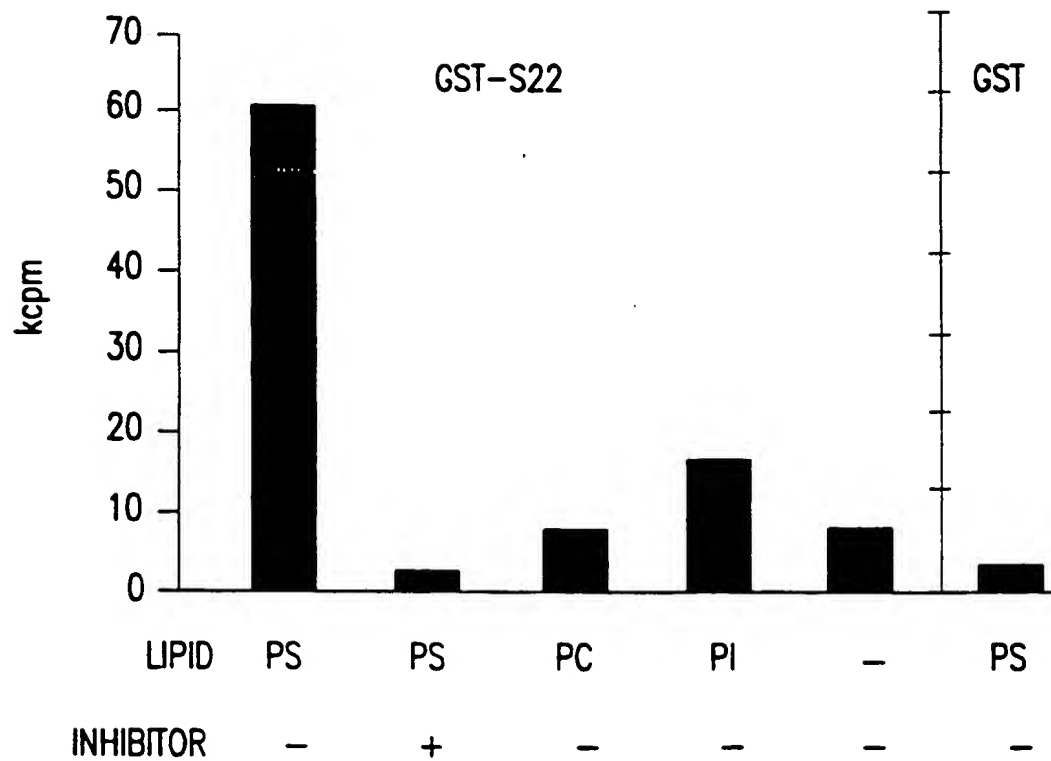


FIG.16B

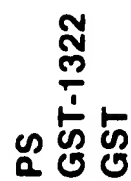


FIG. 17B

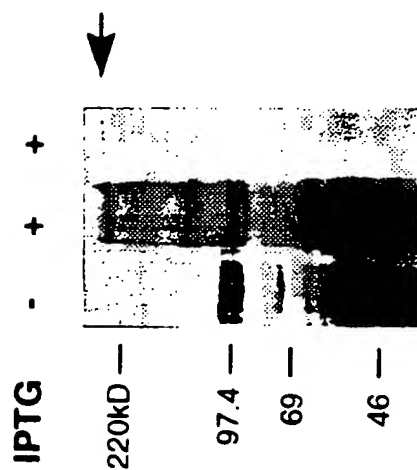


FIG. 17A

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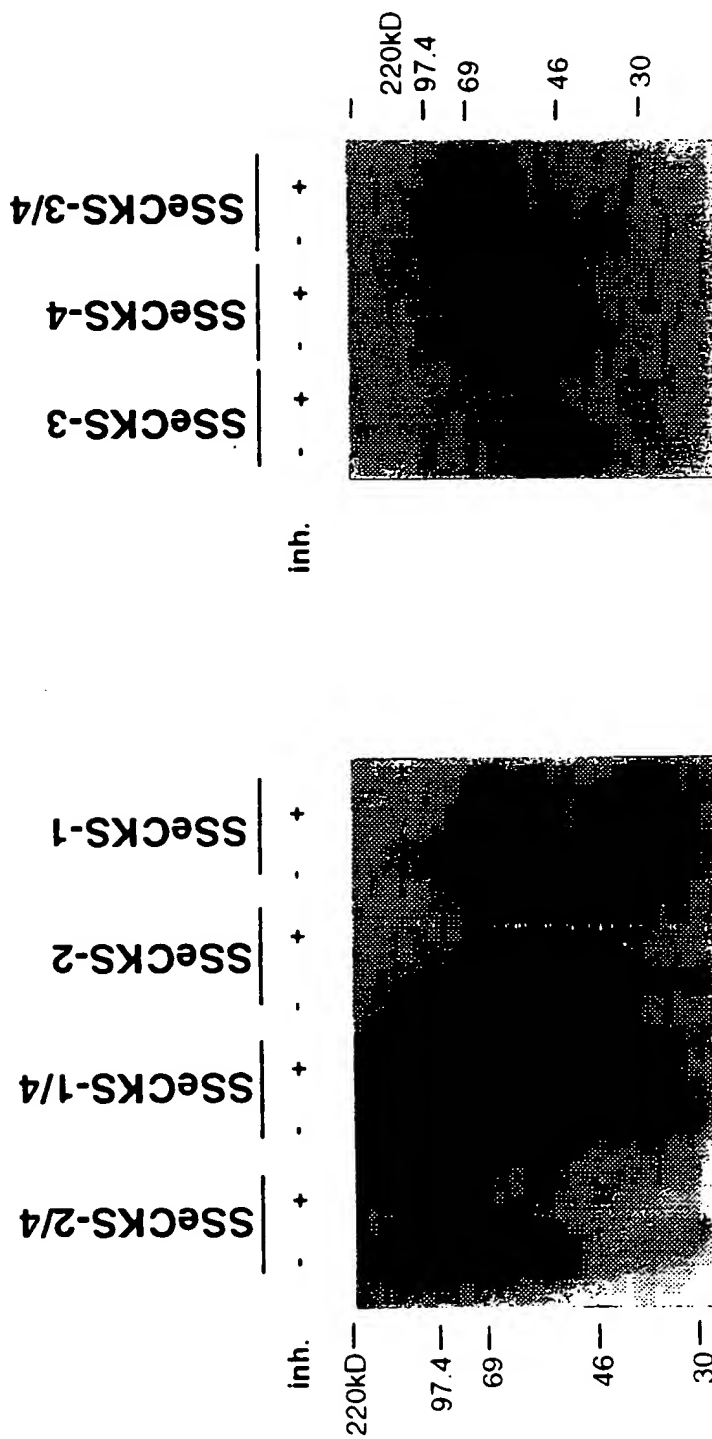
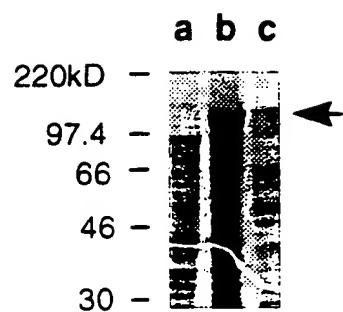


FIG.18A

FIG.18B

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SSeCKS-2/4
FIG.18C



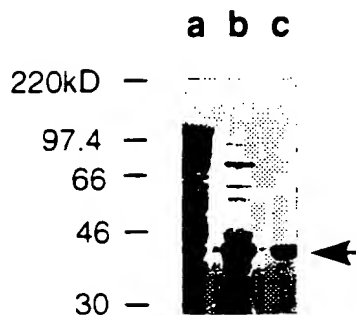
SSeCKS-1/4
FIG.18D



SSeCKS-2
FIG.18E



SSeCKS-1
FIG.18F



SSeCKS-3
FIG.18G



SSeCKS-4
FIG.18H



SSeCKS-3/4
FIG.18I

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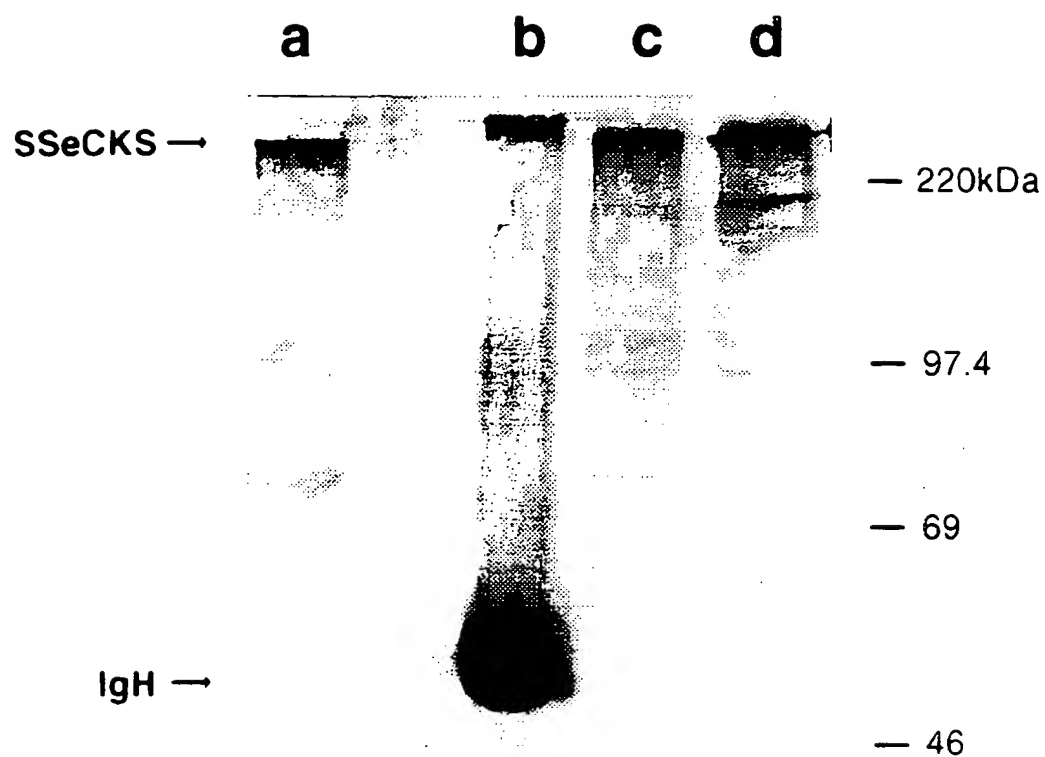


FIG.19

000043-01001

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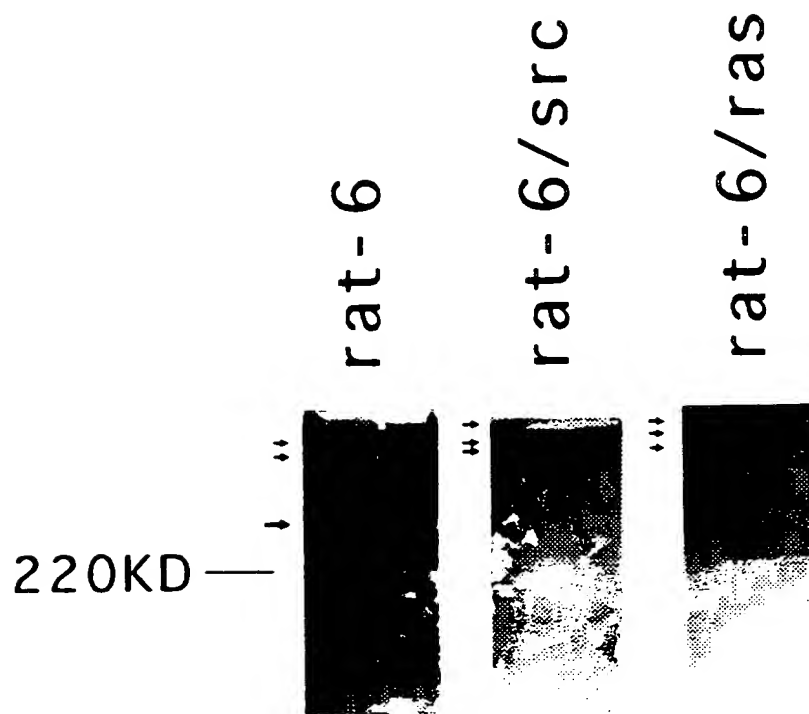


FIG.20

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FIG. 21A



FIG. 21B



FIG. 21C



FIG. 21D



FIG. 21E



FIG. 21F



FIG. 21G



FIG. 21H



FIG. 21I



FIG. 21J

100120-220000

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Rat-6/PKC α Rat-6

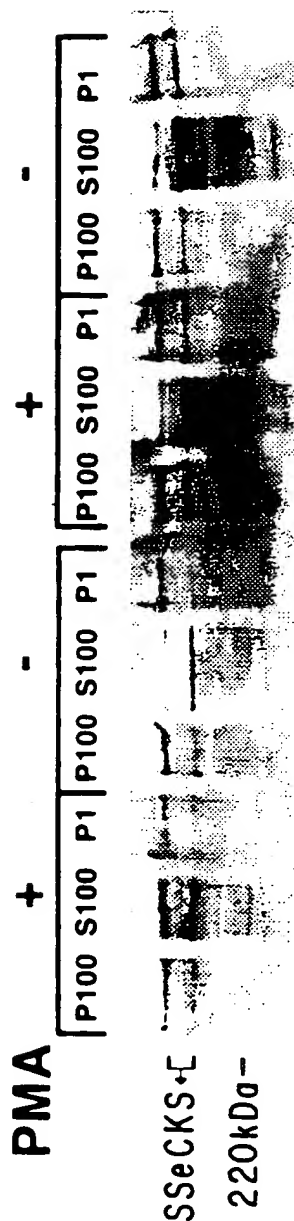


FIG.22

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spleen
thymus
prostate
testes
ovary
small intestine
colon
PBL



FIG.23A

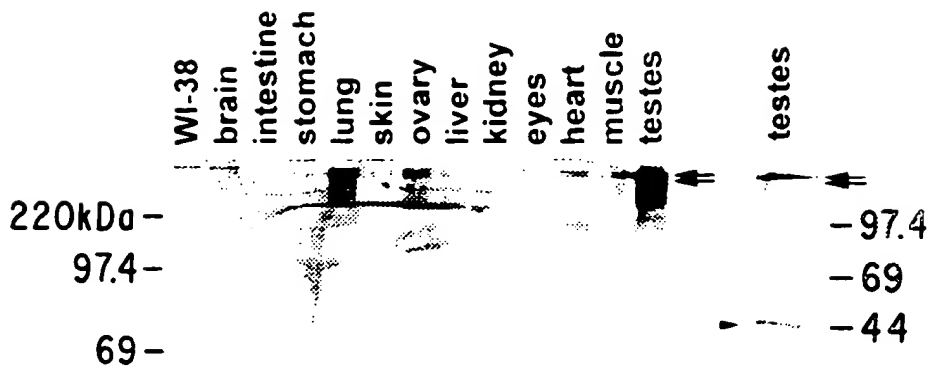


FIG.23B

100120-220000

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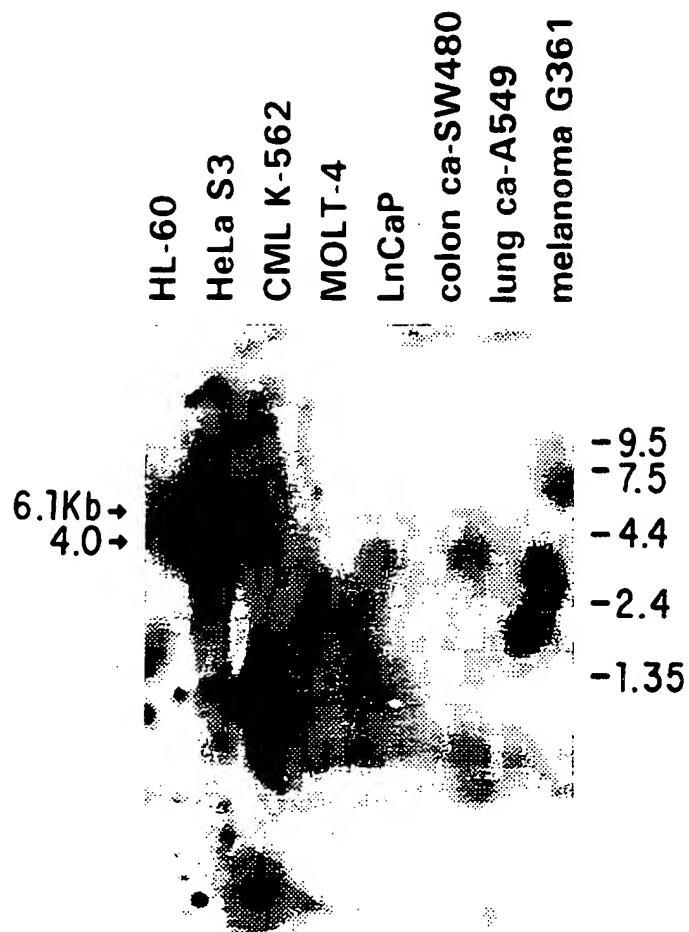


FIG.24

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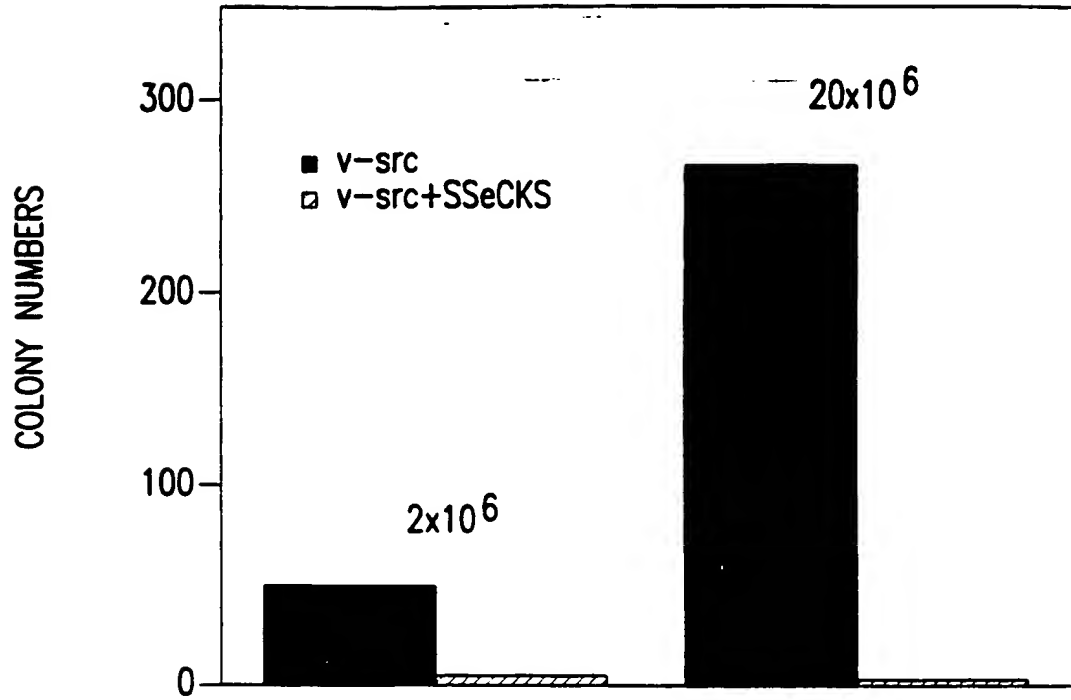


FIG.25A

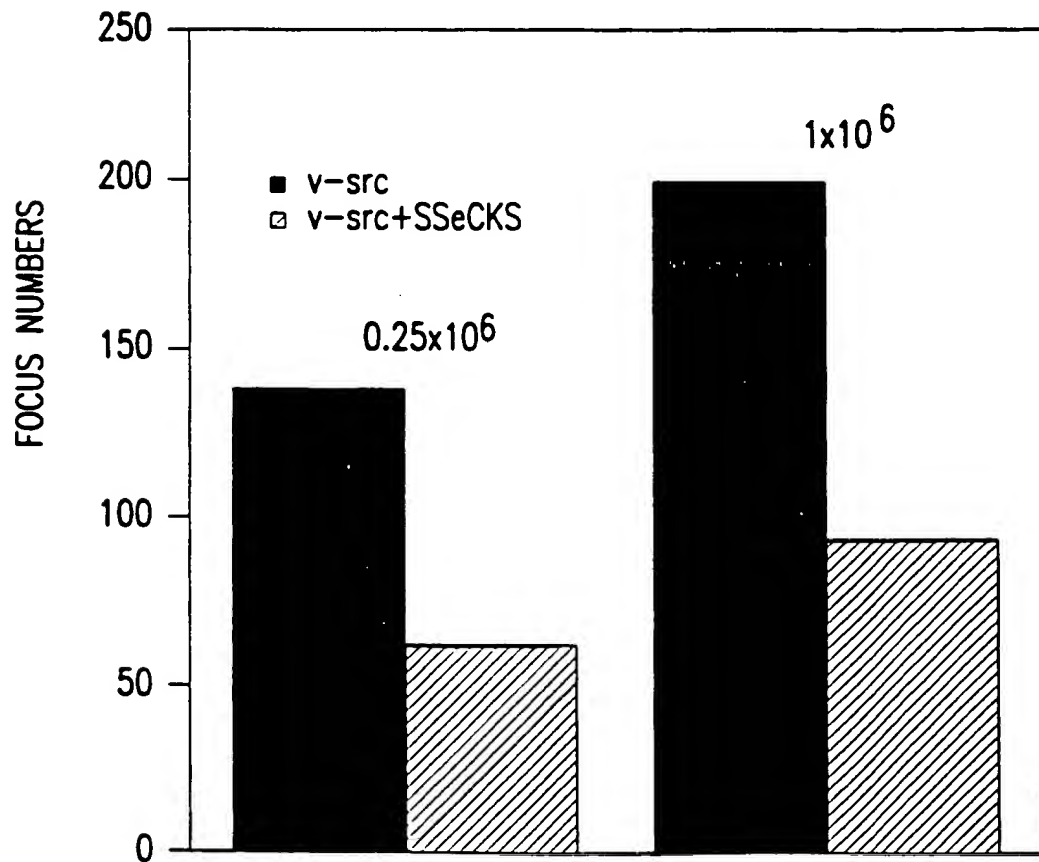


FIG.25B

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		<u>Myr.</u>	<u>Pal.</u>
src	MGSSKSKPKD	+	-
yes	MGCIKSKEDK	+	+
SSeCKS	MGAGSSTEQR	+	?
G α t1	MGAGASAEK	+	-
G α i1	MGCTLSAEDK	+	+
GAP-43	MLCCMRRTKQ	-	+
MYRIST. CONSENSUS: MGXXX $\frac{S}{T}$			

FIG.26

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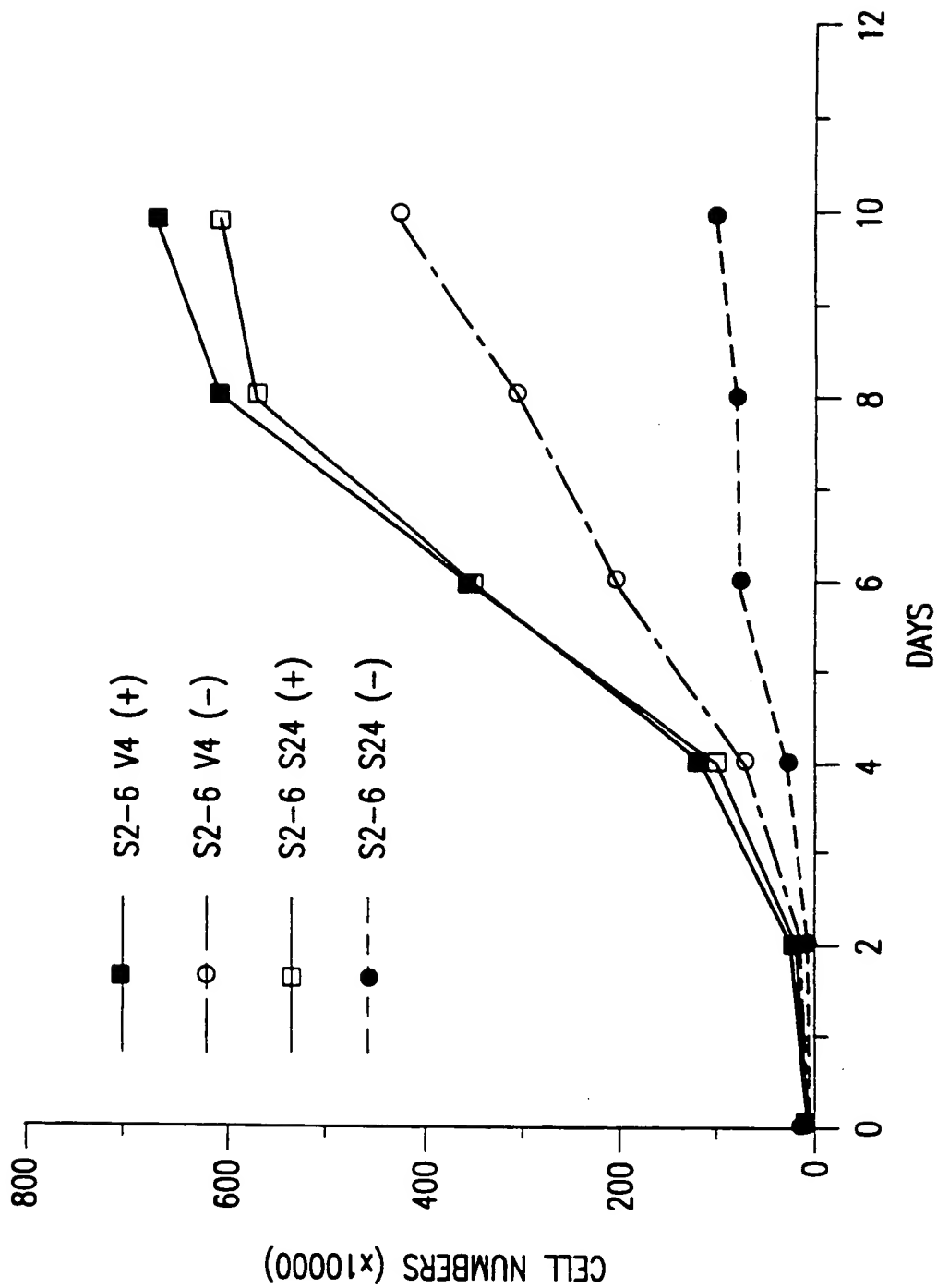


FIG.27

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Tet + -



-220kDa

FIG.28

100720-220kDa

FOOT 20-22-2000

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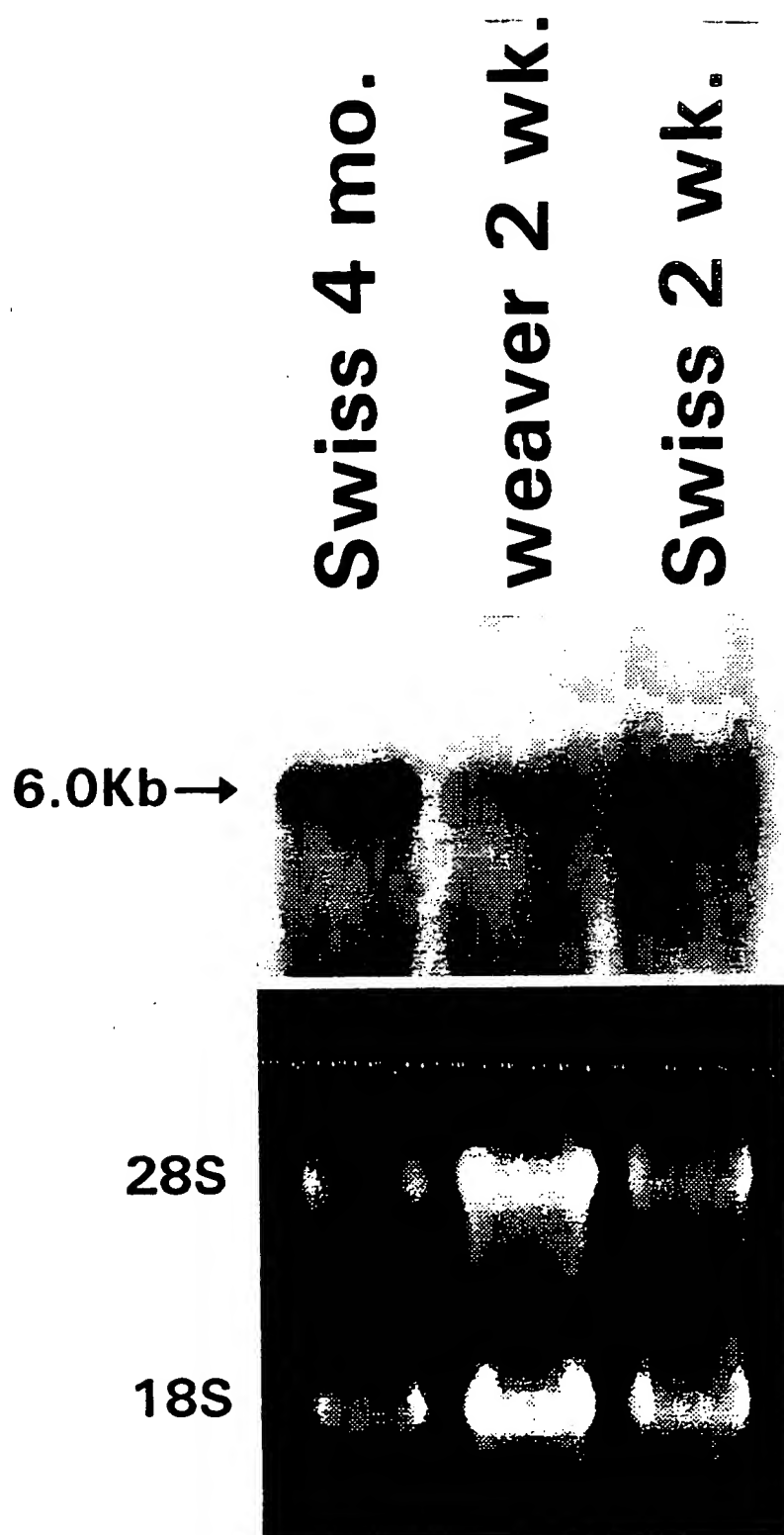


FIG.29

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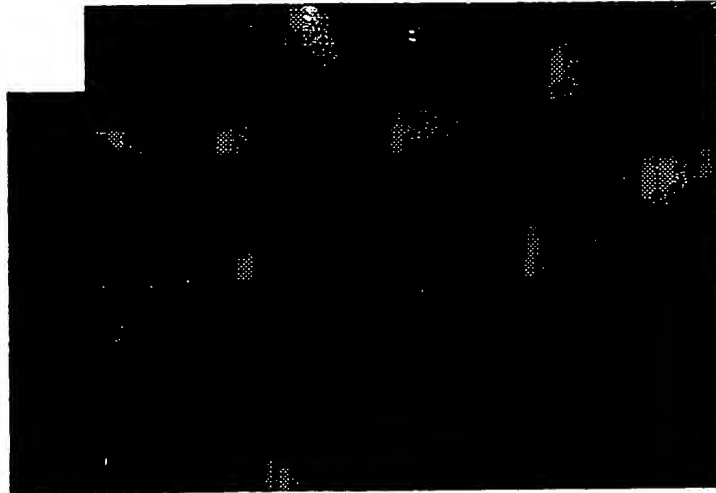


FIG.30A

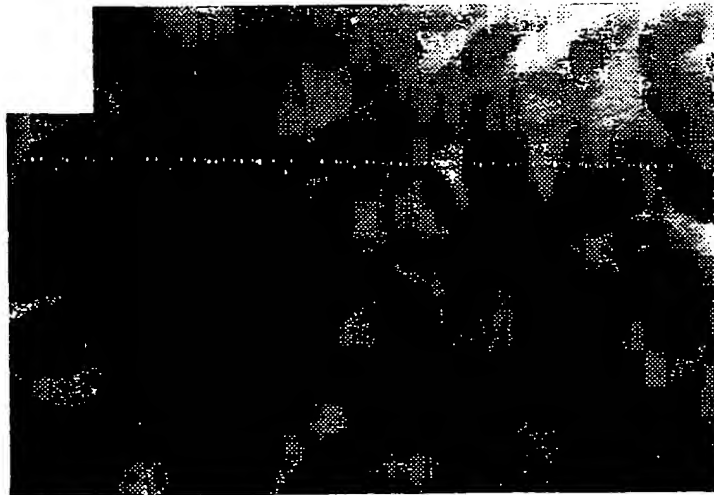


FIG.30B

FOOTNOTES

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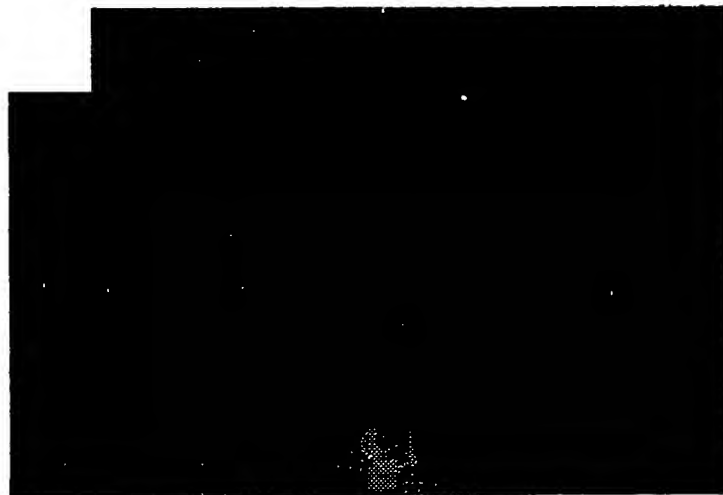


FIG.30C

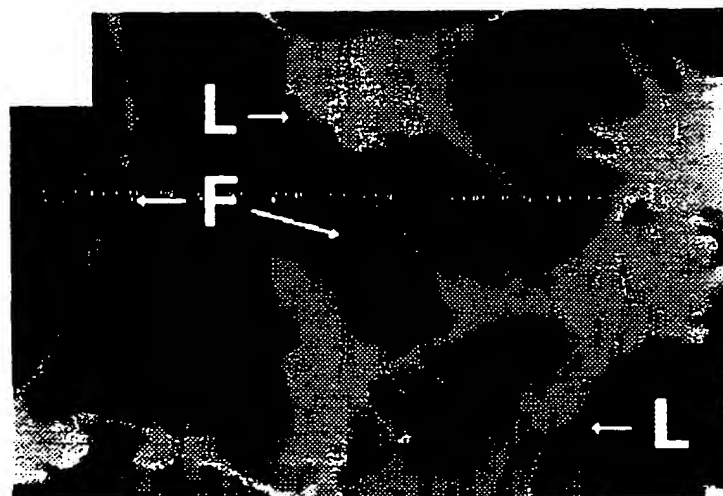


FIG.30D

FOOT-20-EEH20880

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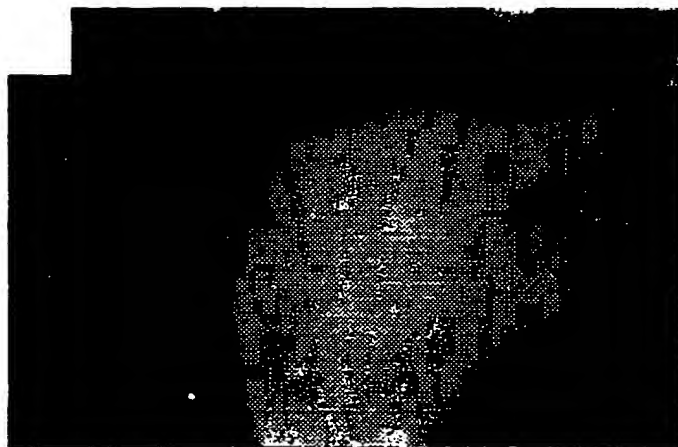


FIG.31A



FIG.31B

2001-04-04 10:00:00

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FIG.31C



FIG.31D

FOOT 20 22 20 60



FIG.32A

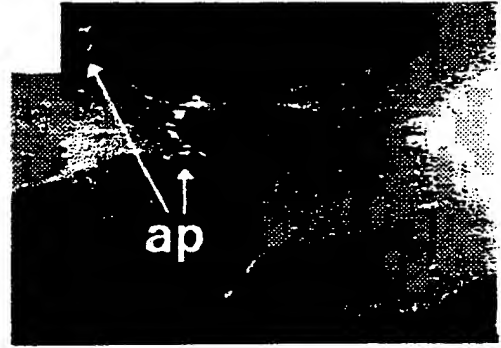


FIG.32B



FIG.32C

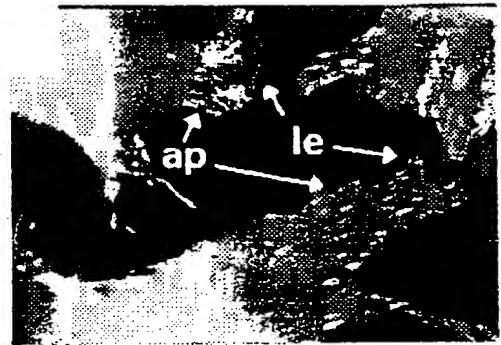


FIG.32D



FIG.32E



FIG.32F



FIG.32G



FIG.32H

FOOT-20-22420000

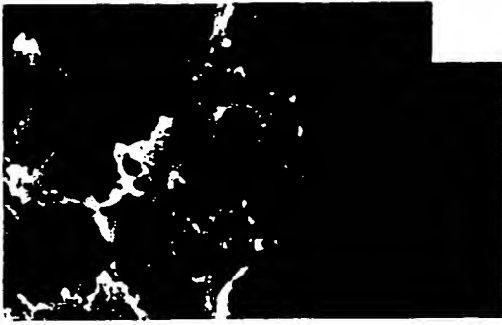


FIG.33A



FIG.33B



FIG.33C



FIG.33D



FIG.33E

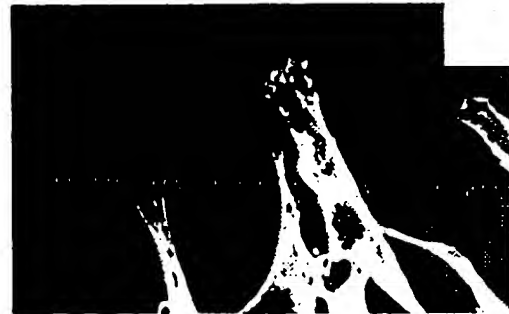


FIG.33F



FIG.33G

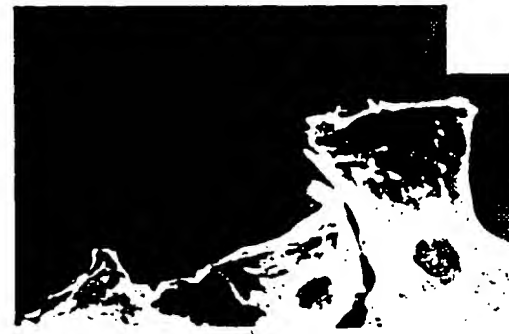


FIG.33H

FOOT-20-2E20000

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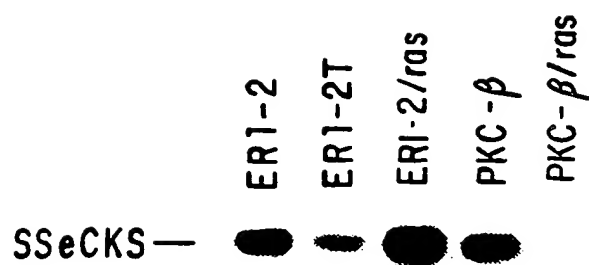


FIG.34

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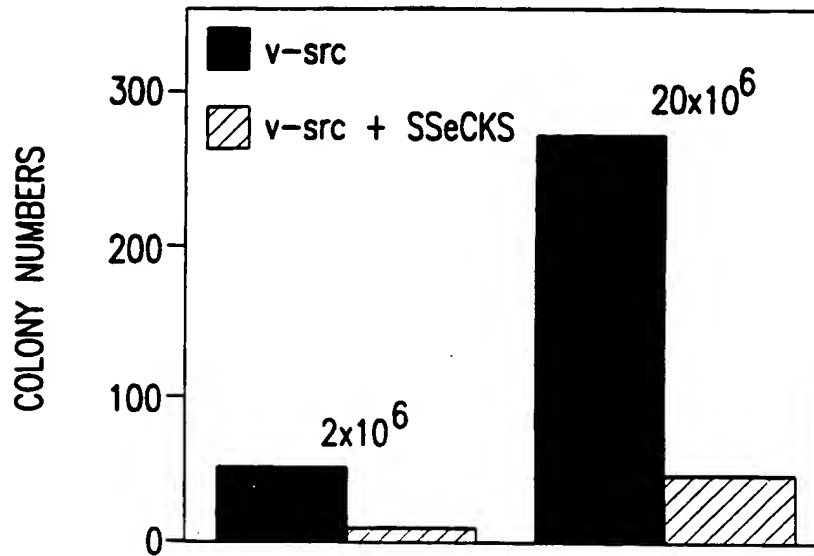


FIG.35A

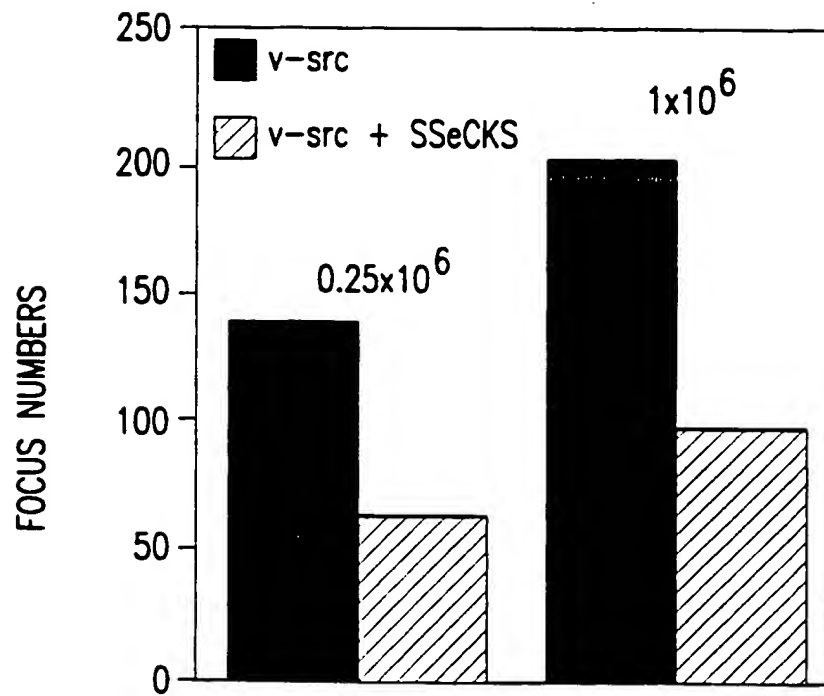
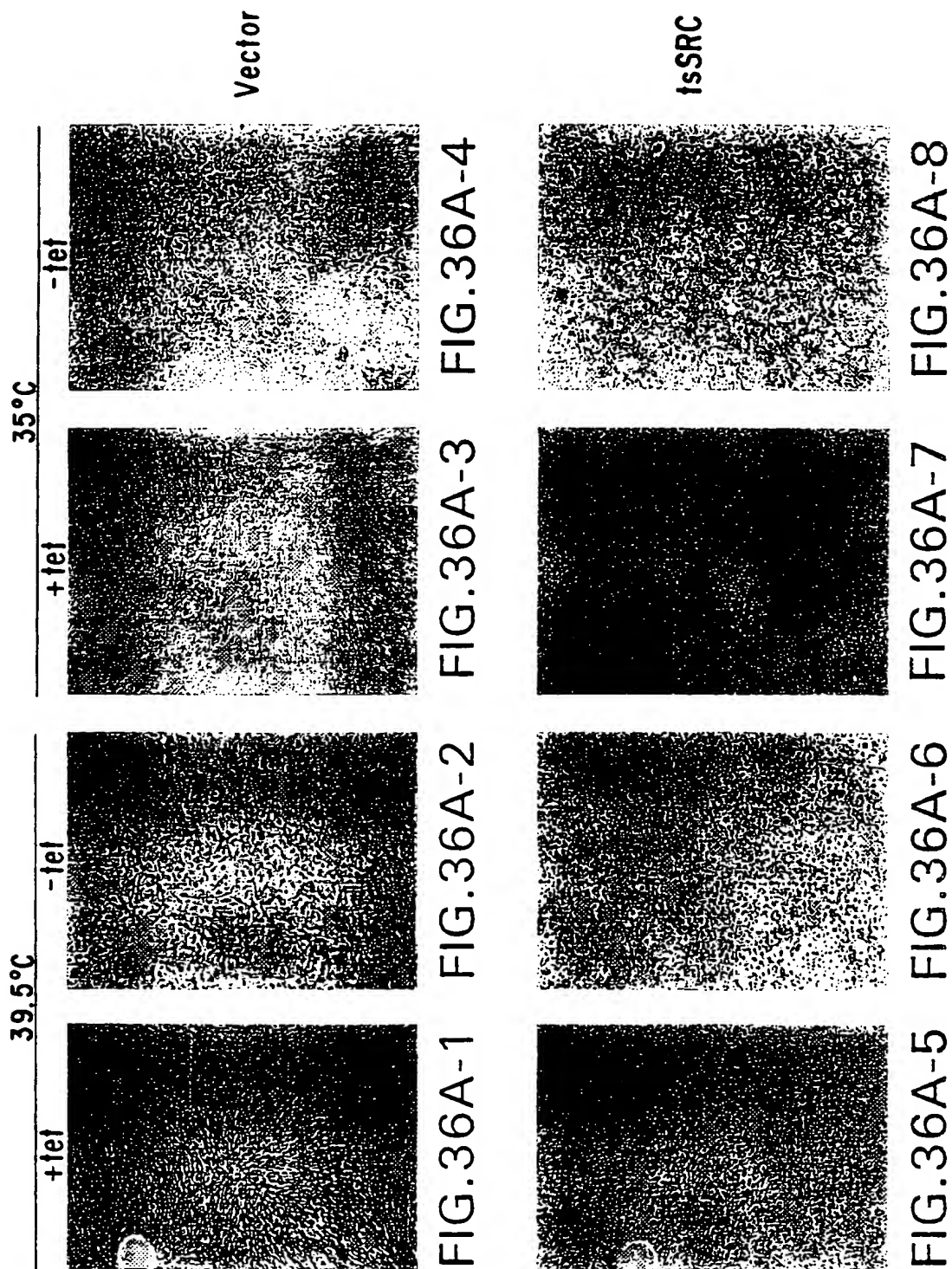


FIG.35B



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35°C



FIG.36B-1

39.5°C

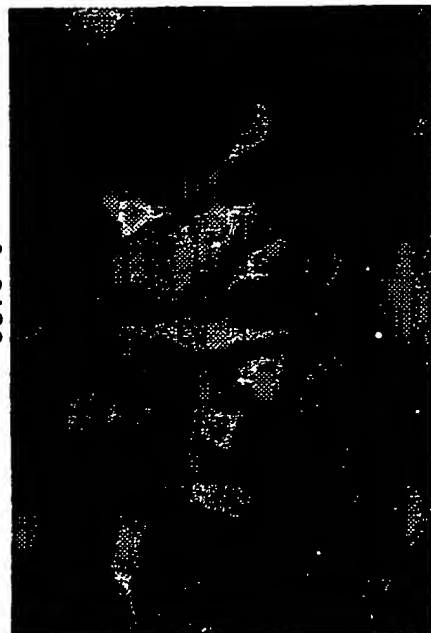


FIG.36B-2

+tet

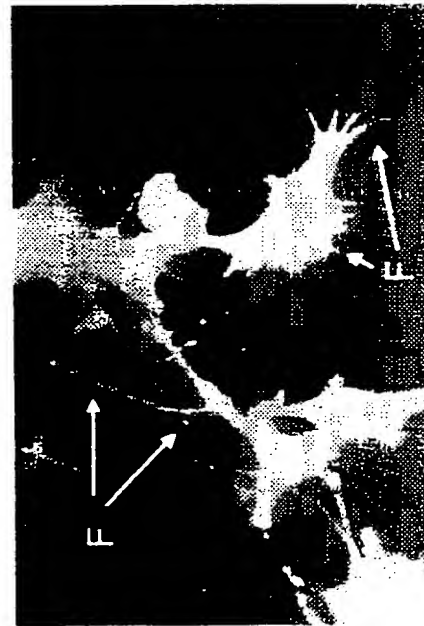


FIG.36B-3



FIG.36B-4

-tet

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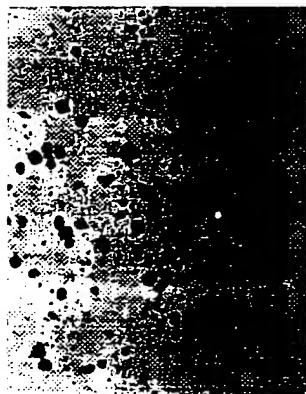


FIG.37A-1



FIG.37A-2

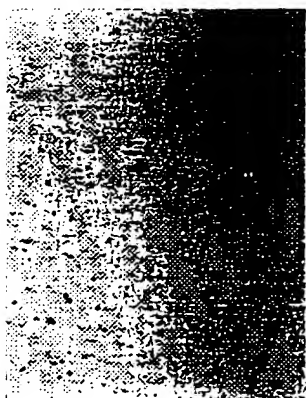


FIG.37A-3



FIG.37A-4

100740-2E420660

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SOFT AGAR COLONY FORMATION						
	ts src1	ts src2	ts src3	ts src4	pLJ2	pLJ3
+ tet	2160	1640	2800	1080	0	0
- tet	60	60	110	35	0	0

FIG.37B

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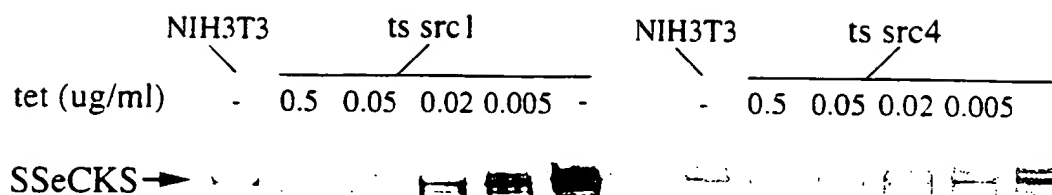


FIG.38A

0.5ug/ml tet



FIG.38C-1

0.02ug/ml tet

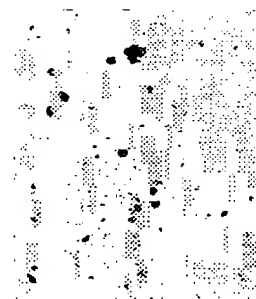


FIG.38C-2

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SOFT AGAR COLONY FORMATION					
	35°C			39°C	
tet(ug/ml)	0.5	0.05	0.02	0.005	0
ts src1	2852	2464	174	51	22
ts src4	1463	743	67	11	0

FIG.38B

(65 of 90)

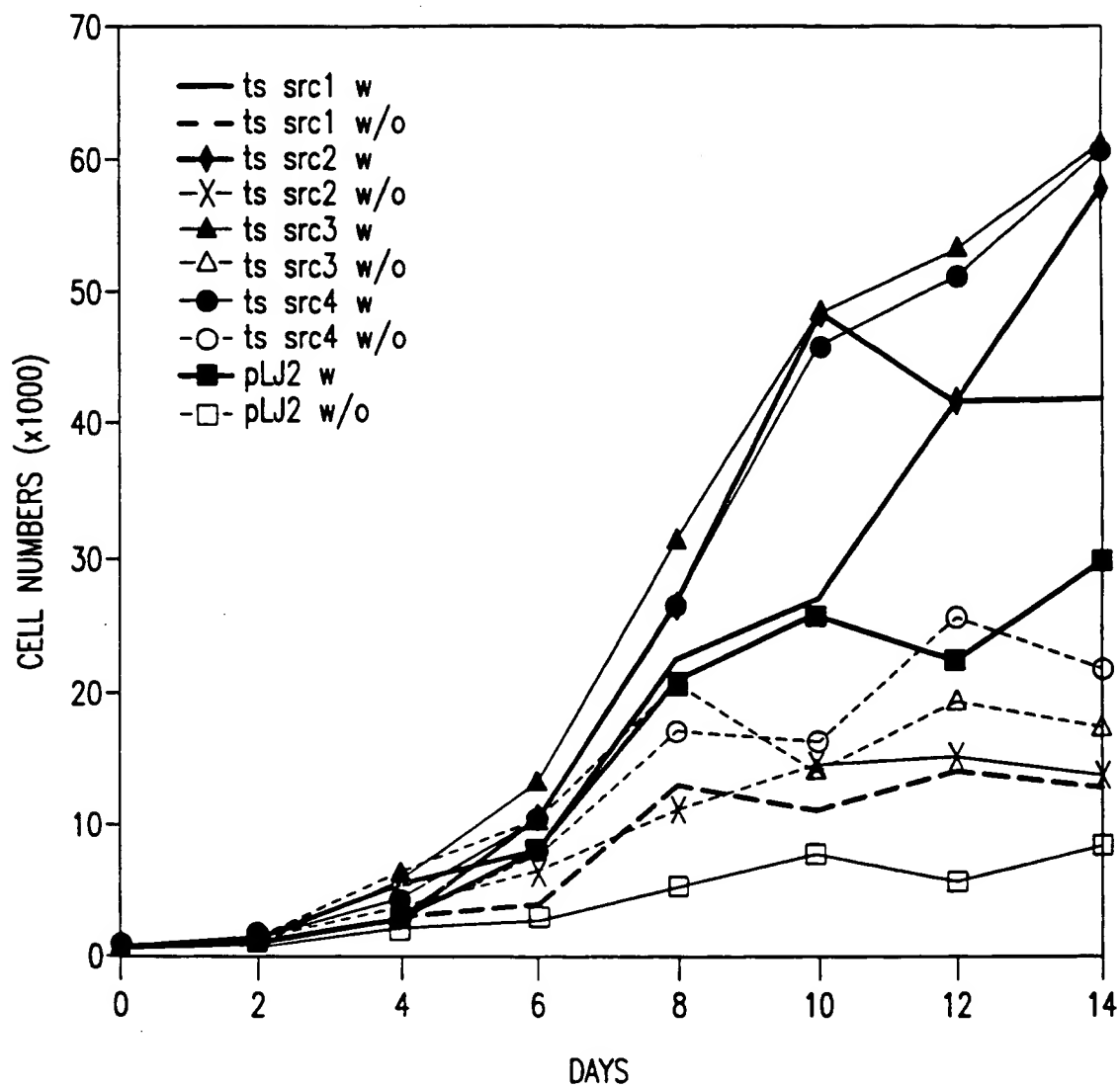


FIG.39A

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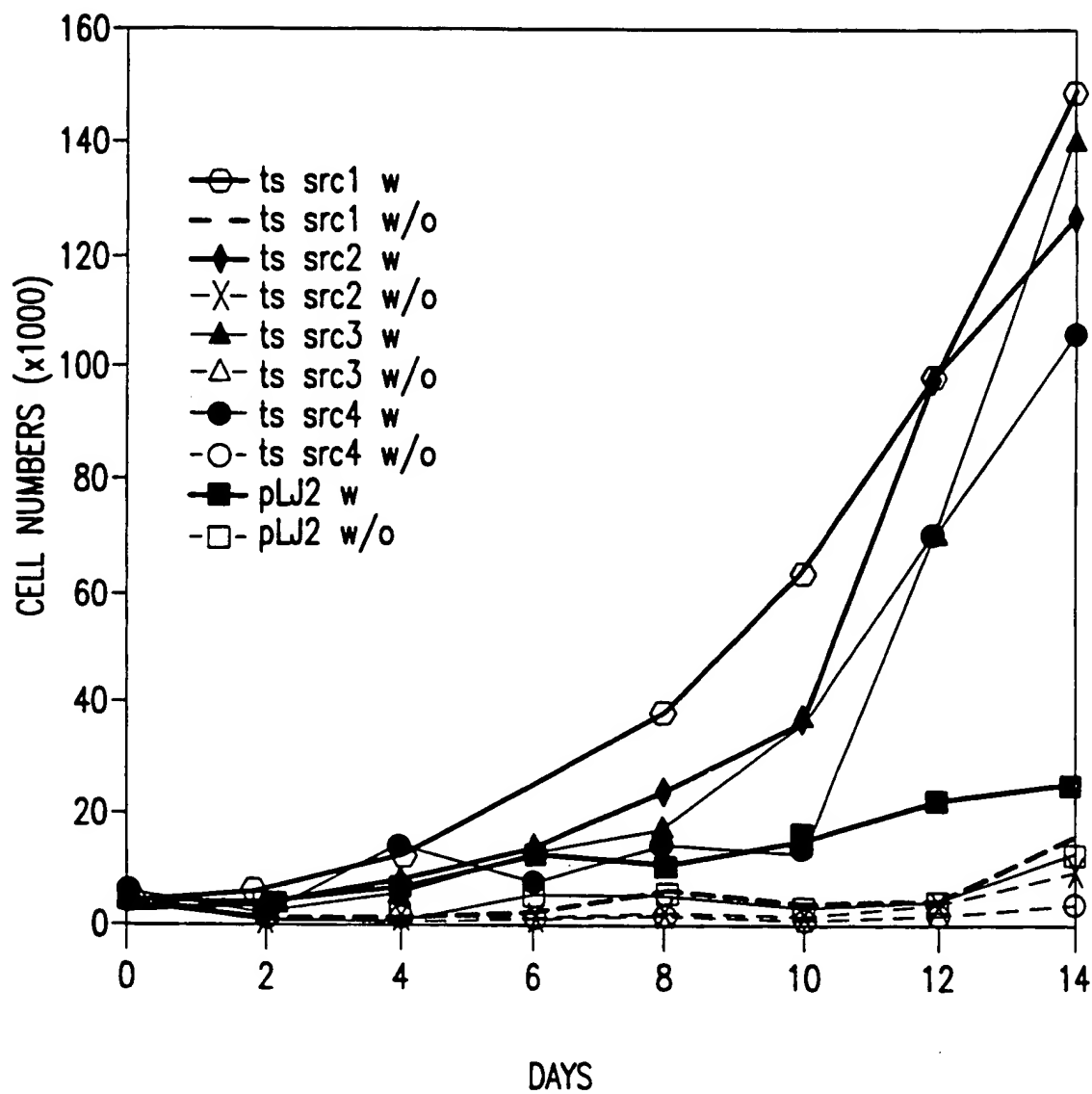


FIG.39B



FIG. 40A

FIG. 40B

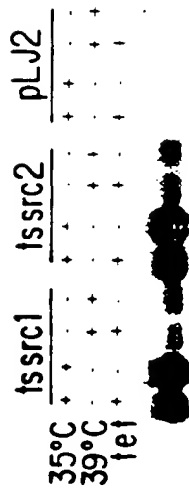


FIG. 40C-1

FIG. 40C-2

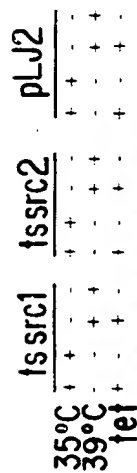


FIG. 40D-1

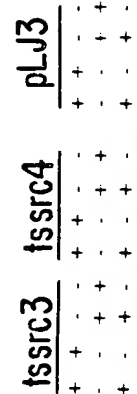


FIG. 40D-2

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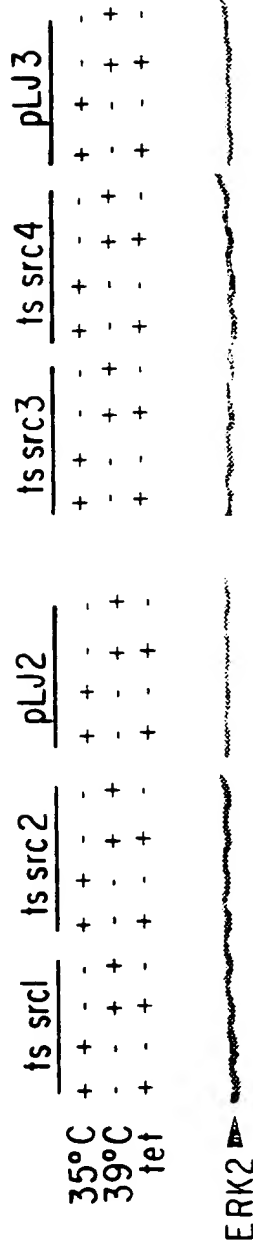


FIG.41A-1

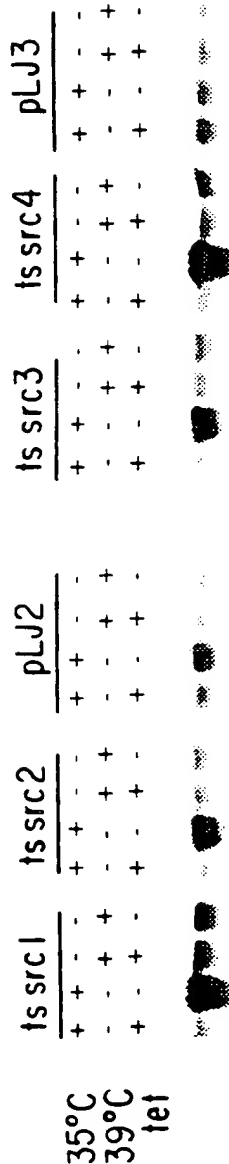


FIG.41B-1

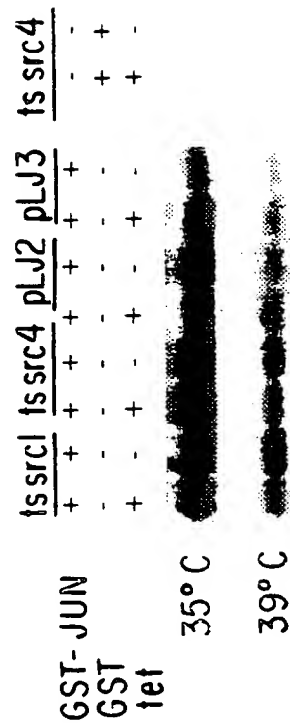


FIG.41C

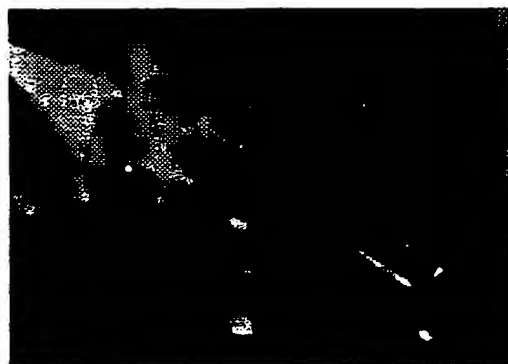
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SSeCKS



FIG.42A-1

Vinculin



35°C
+tet

FIG.42A-2



FIG.42A-3



35°C
-tet

FIG.42A-4

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SSeCKS



FIG.42A-5

Vinculin

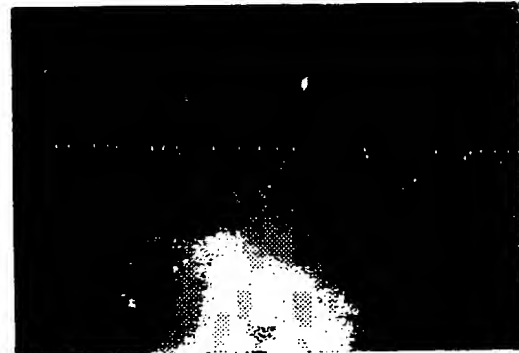


39.5°C
+tet

FIG.42A-6



FIG.42A-7



39.5°C
-tet

FIG.42A-8

100720-242060

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SSeCKS



FIG.42B-1

Phalloidin



35°C
+tet

FIG.42B-2



FIG.42B-3



35°C
-tet

FIG.42B-4

FOOT 20 22 2000

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SSeCKS



FIG.42B-5

Phalloidin



FIG.42B-6

39.5°C
+ tet



FIG.42B-7



FIG.42B-8

39.5°C
- tet

TOPF20-22420660

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000043-074004

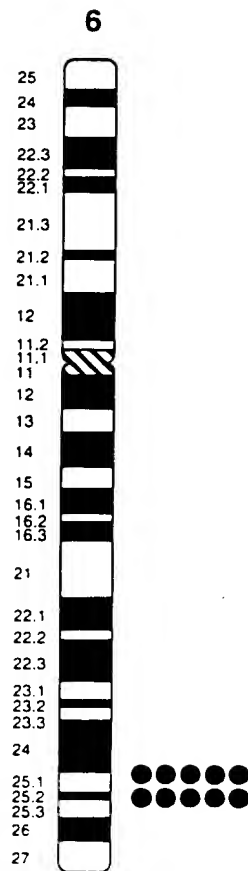
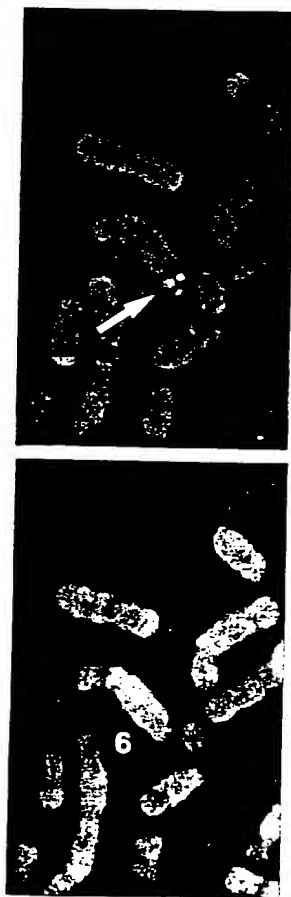


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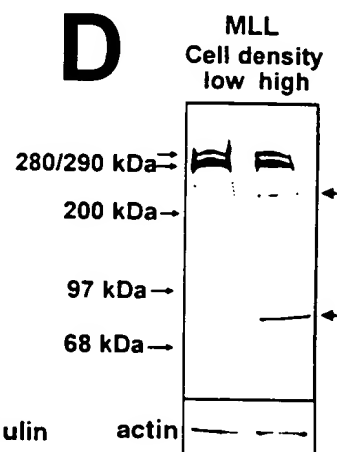
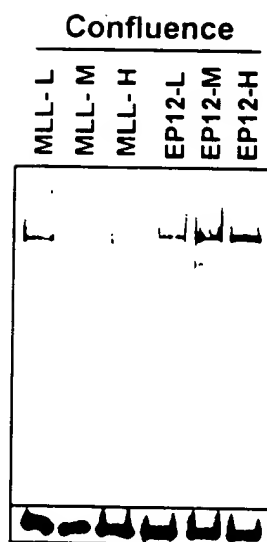
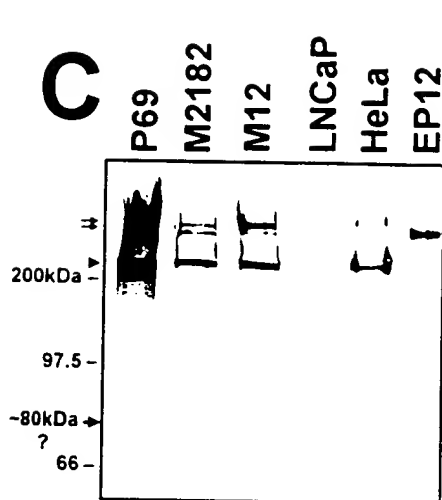
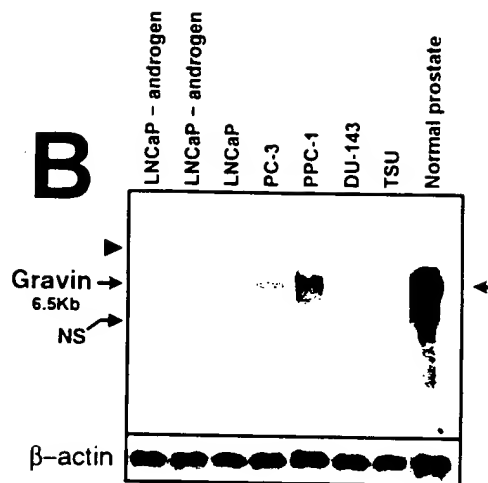
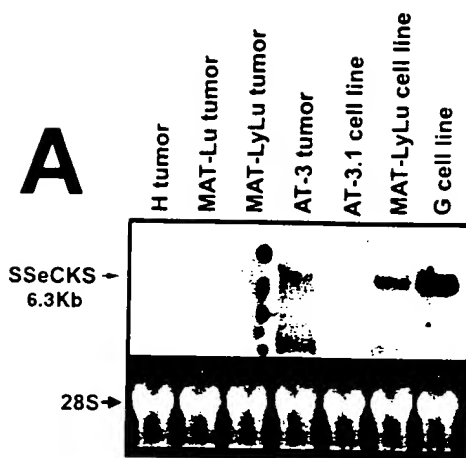


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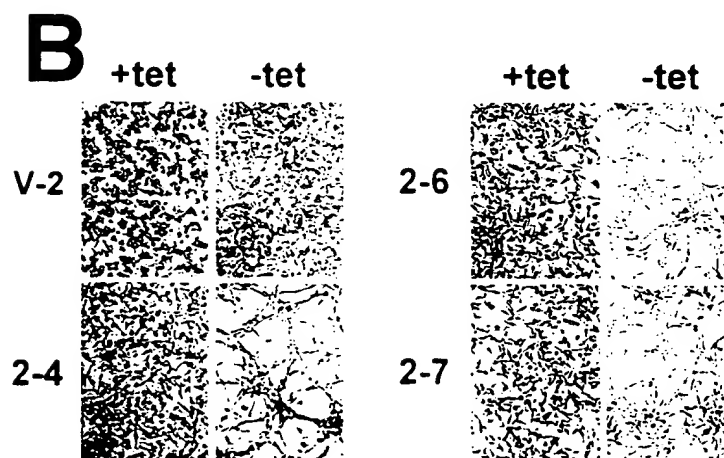
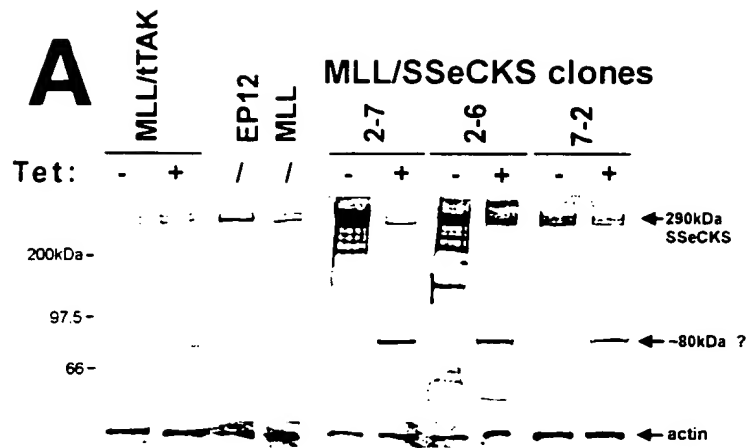
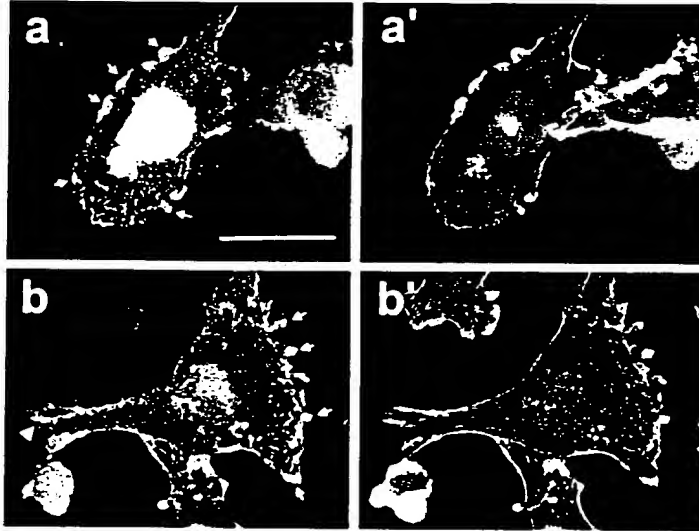


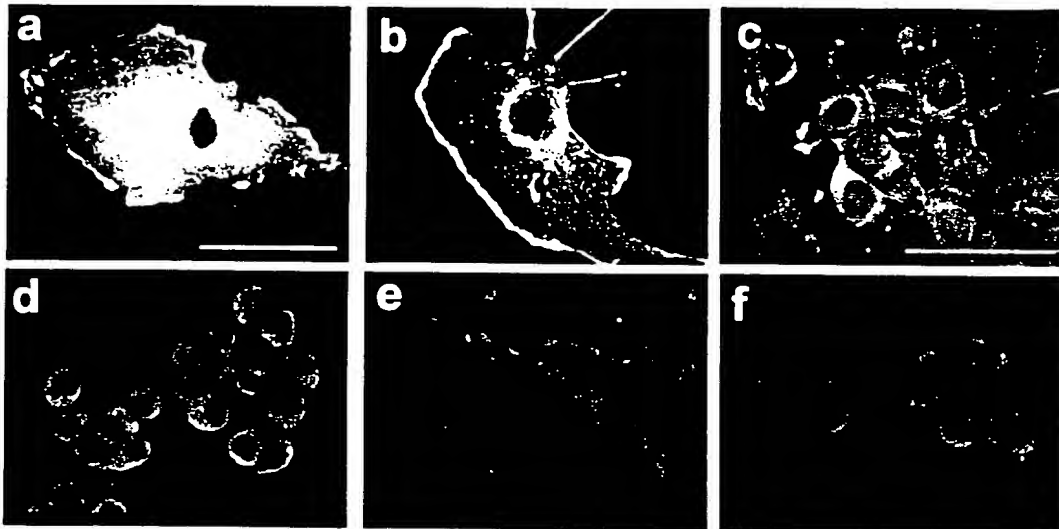
Figure 4b

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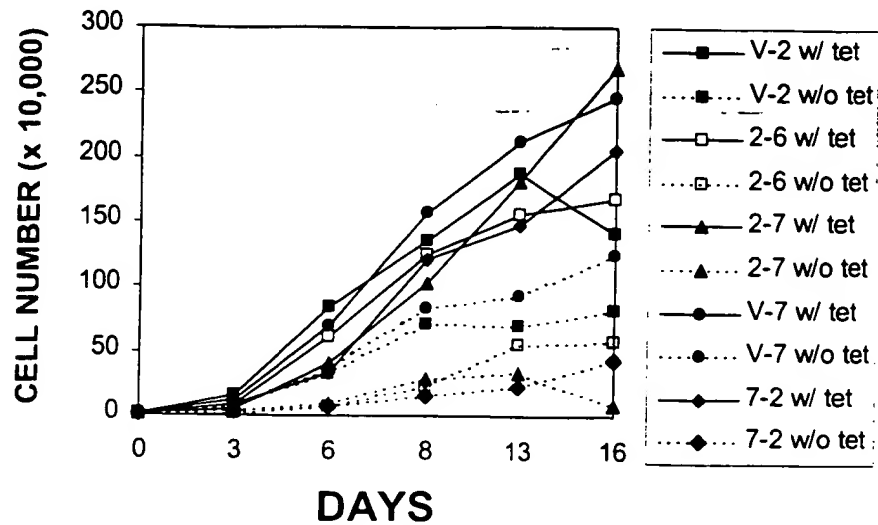
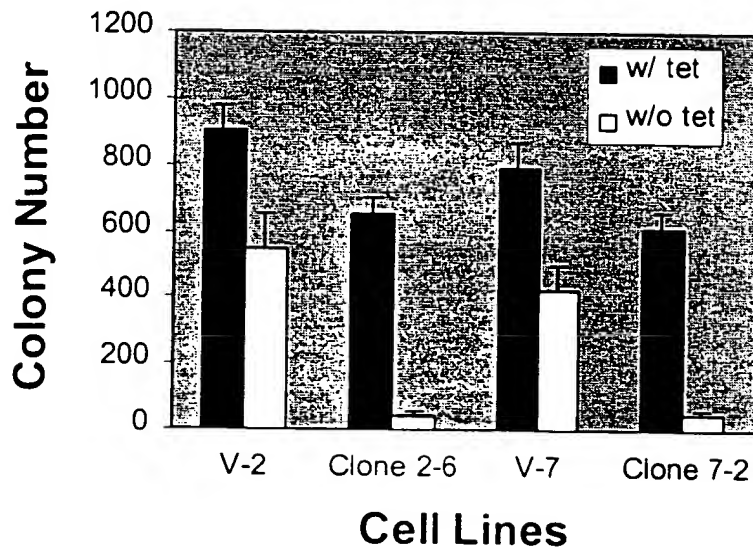
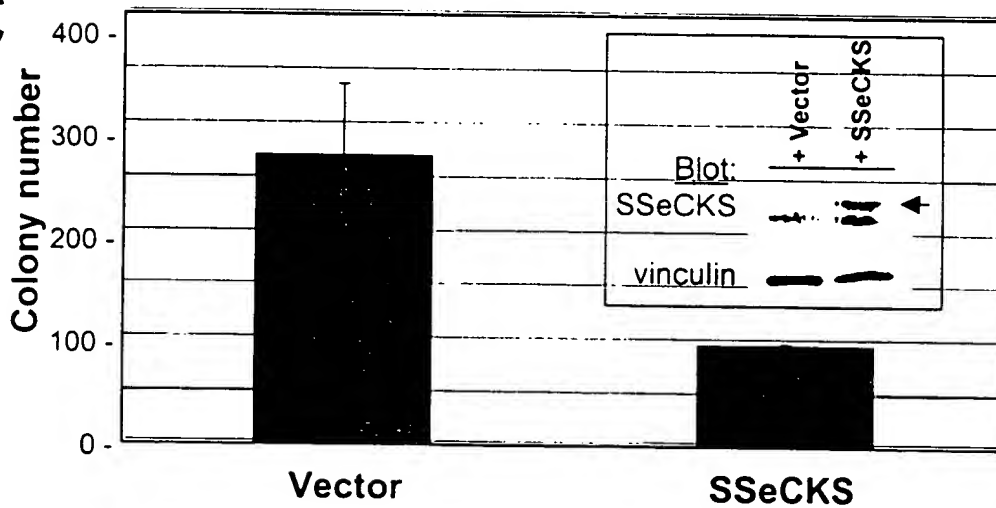
A



B

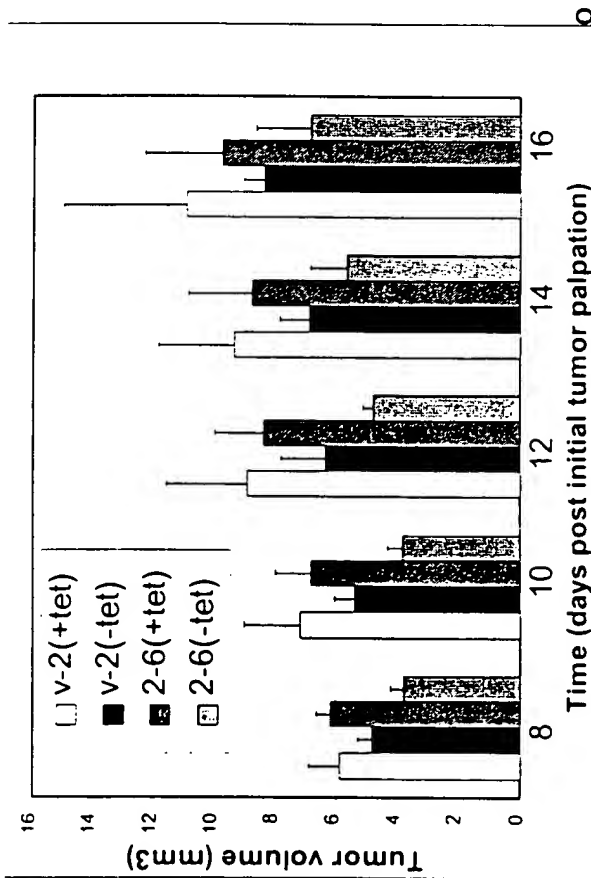


100120-22120660

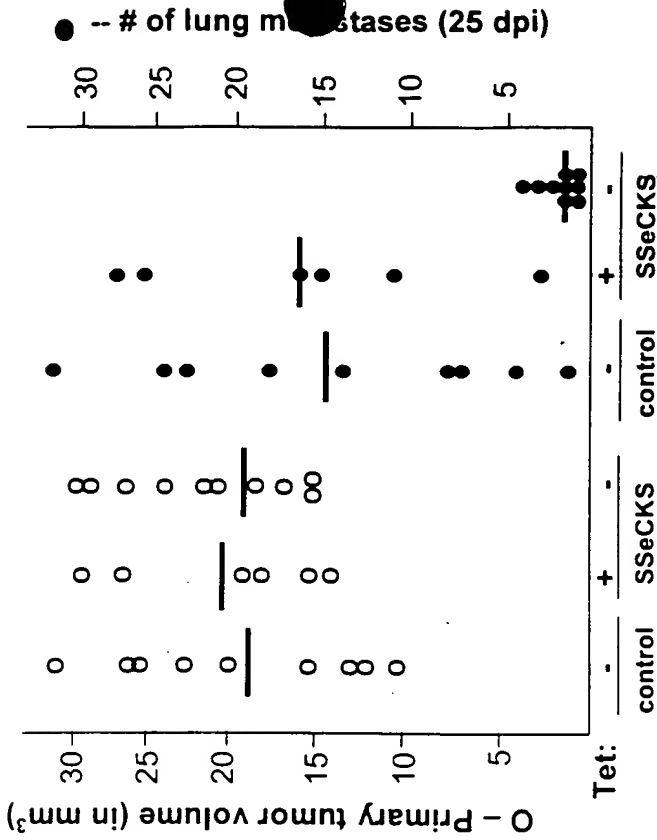
A**B****C**

FOOT-20-22222222

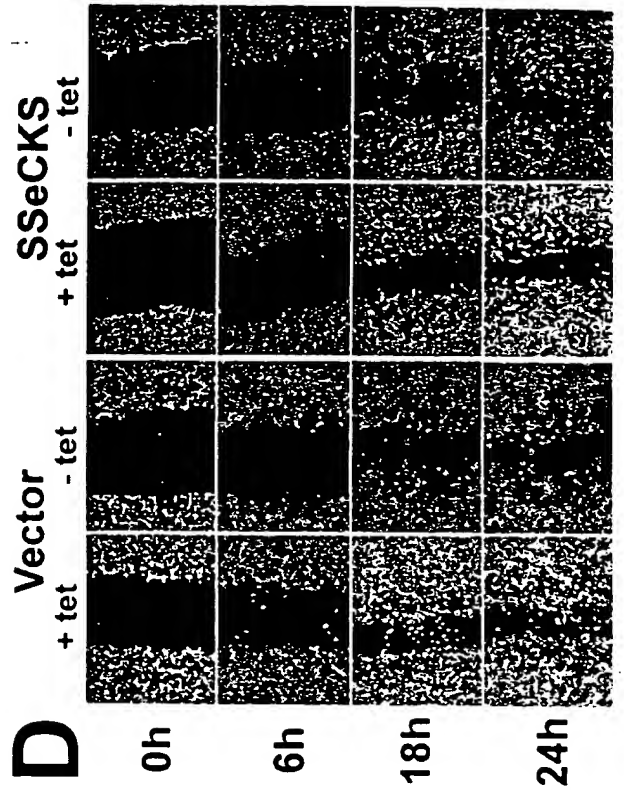
A



B



D



C

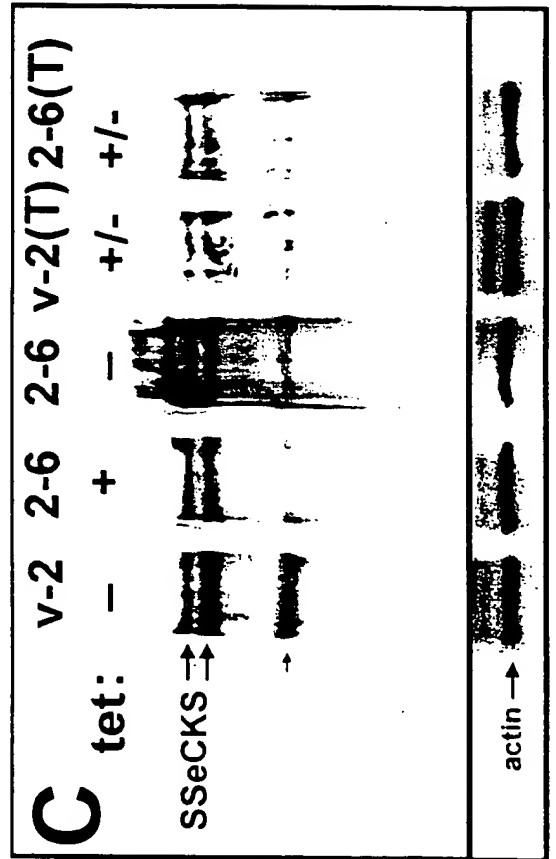
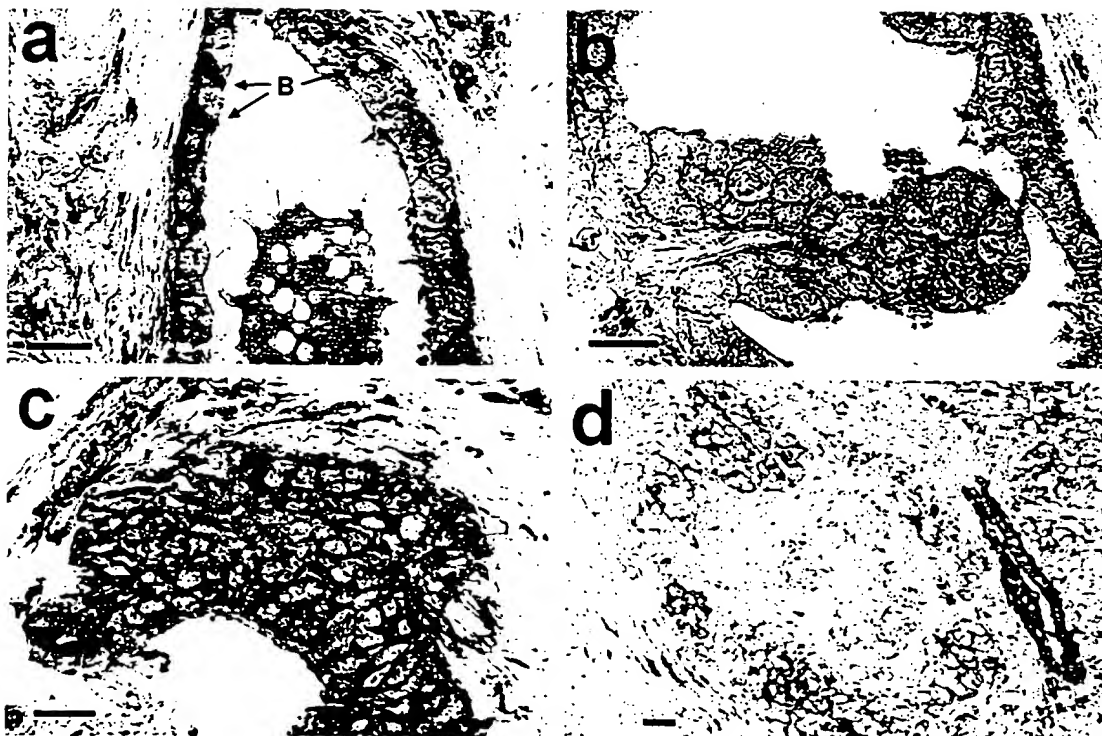
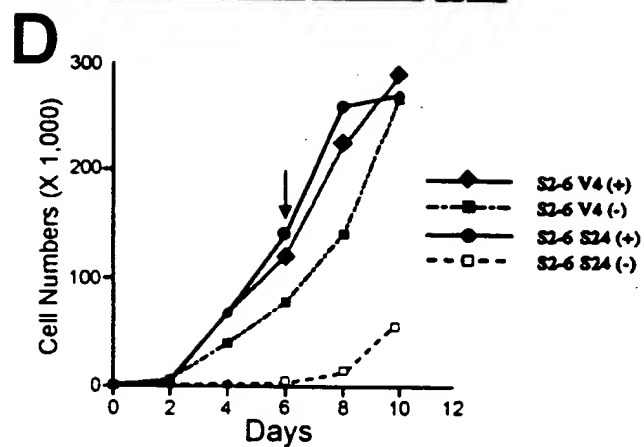
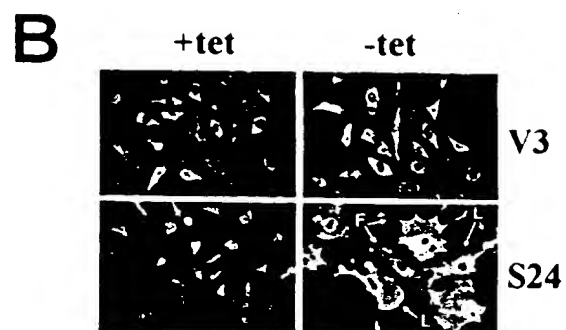
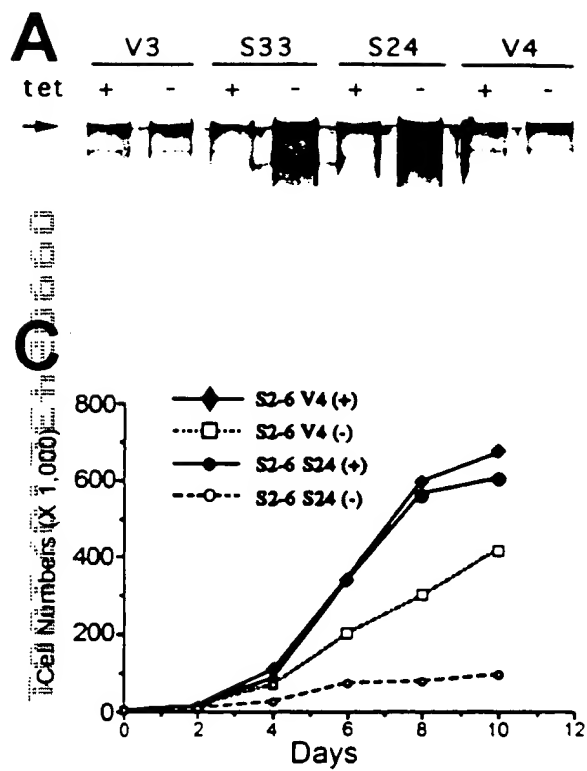


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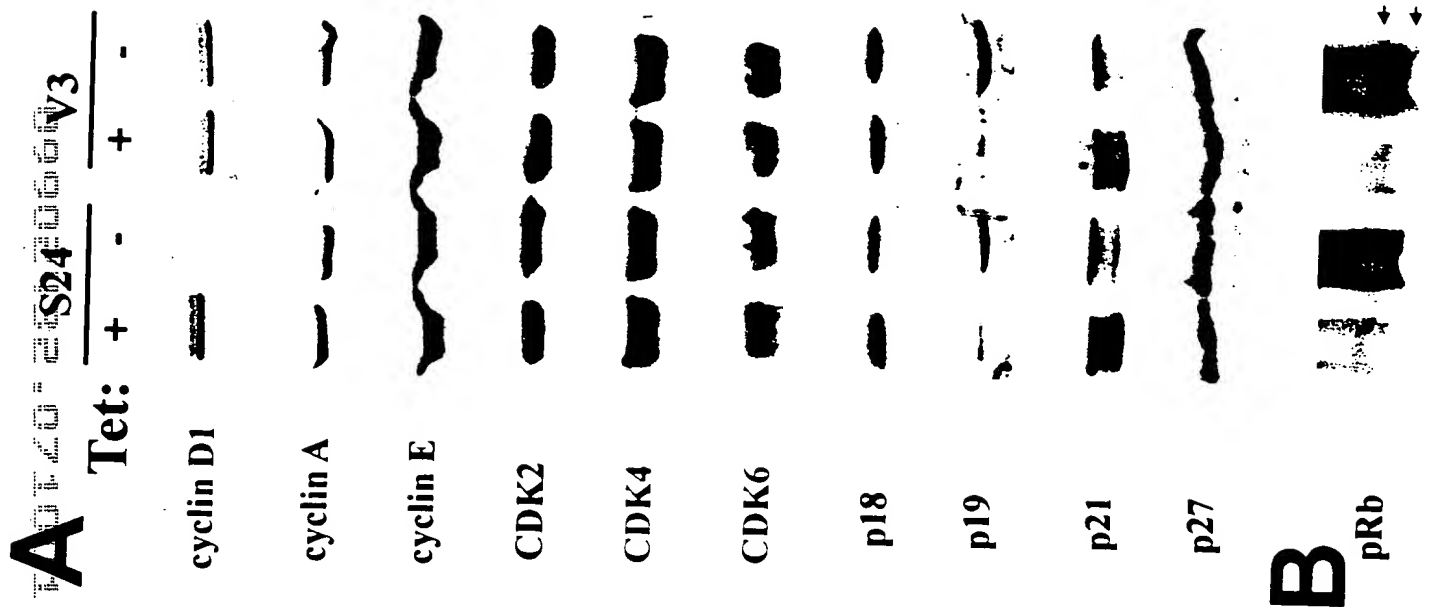
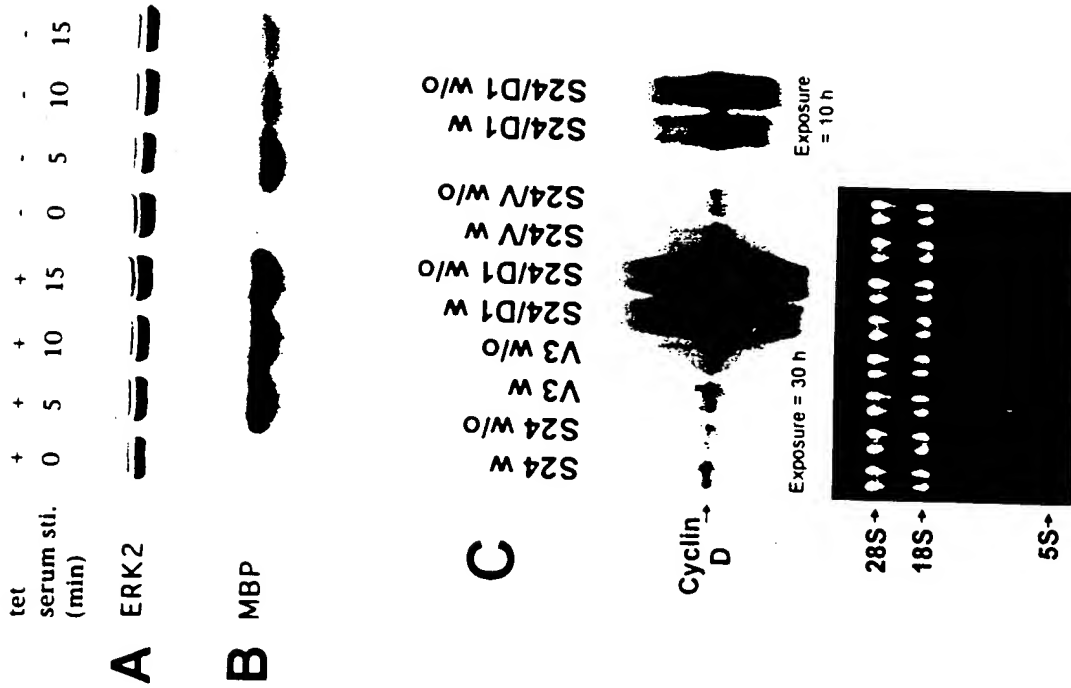
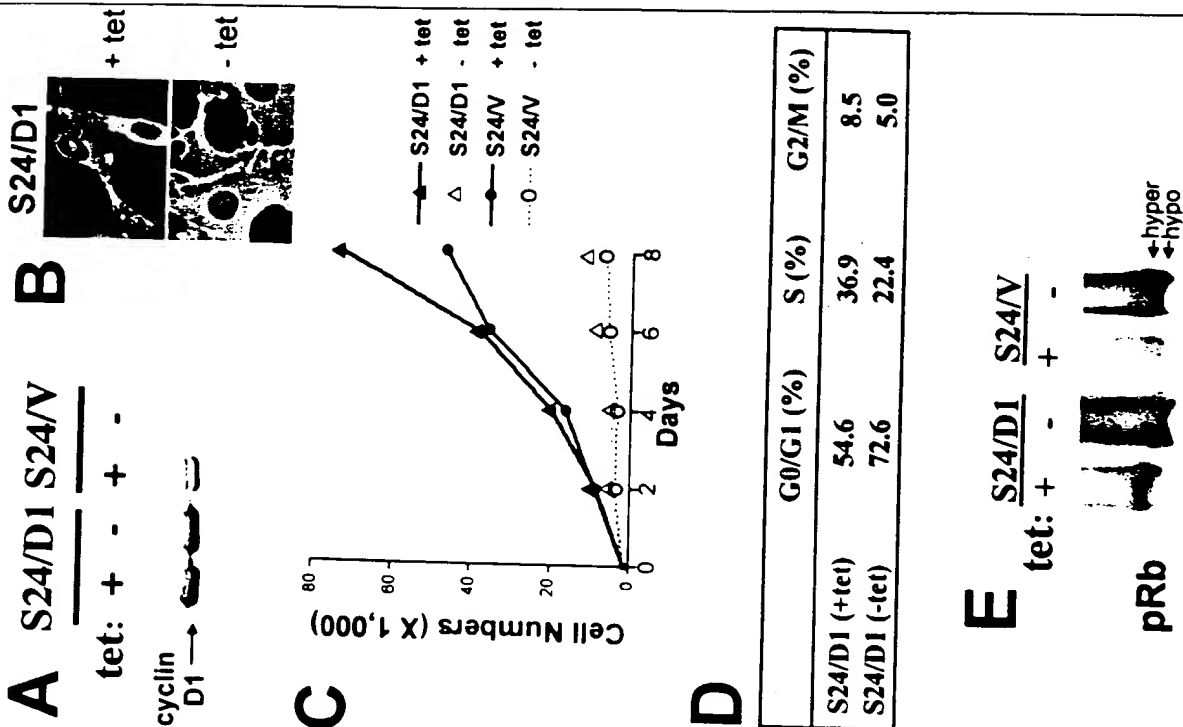


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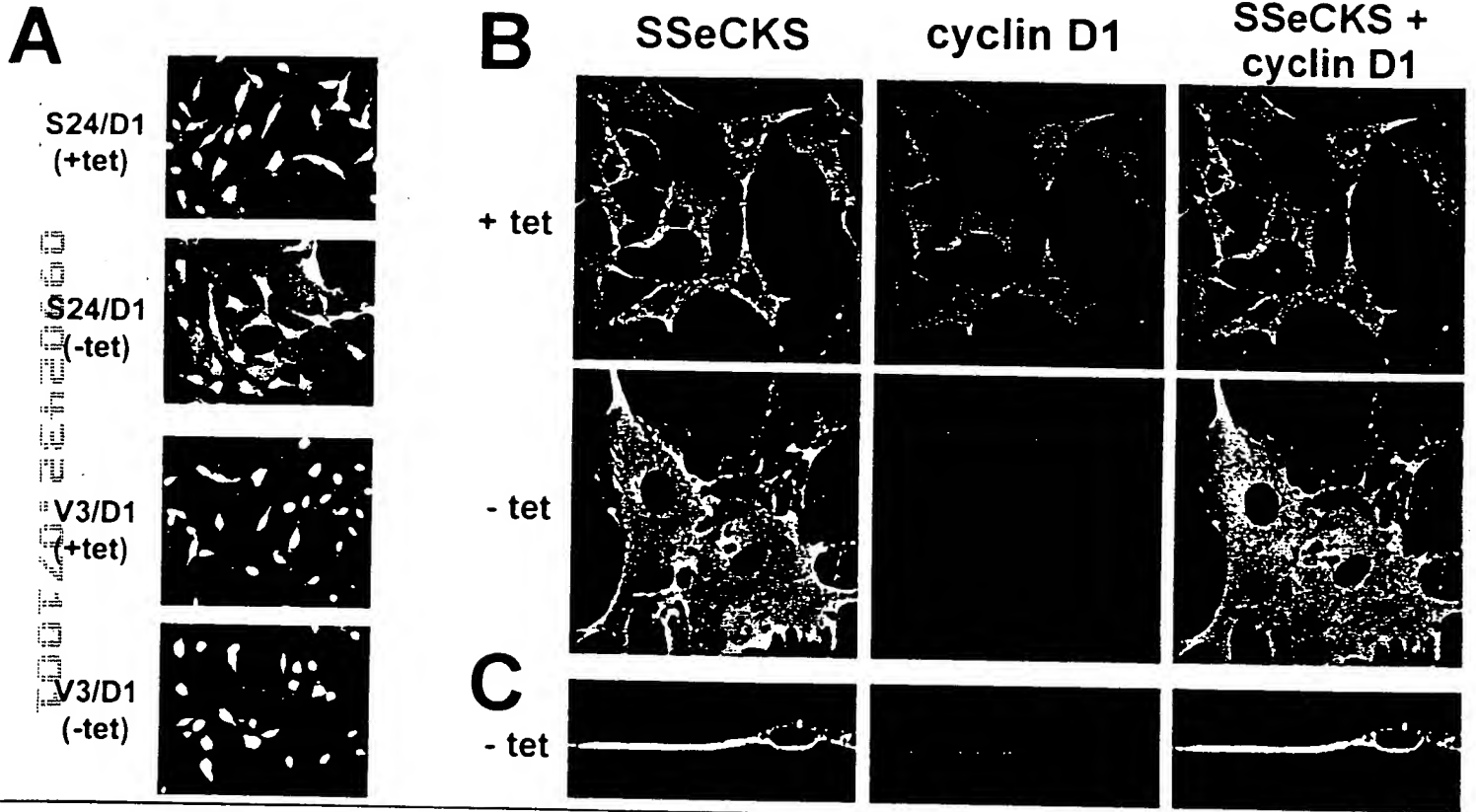


Figure 56

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S24/D1
+ tet



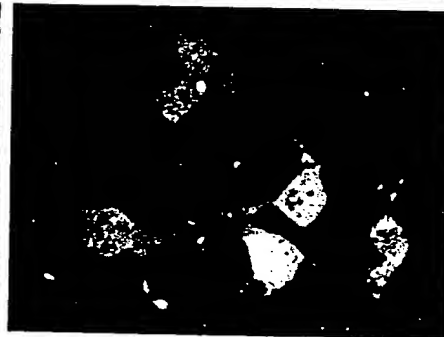
S24/D1
- tet



S24/D1
+ tet
+ PMA



S24/D1
- tet
+ PMA



1000120-120000

Figure 57

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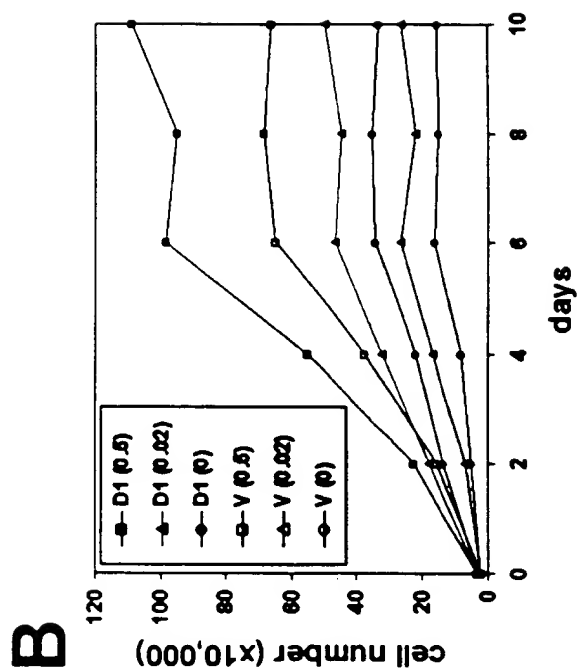
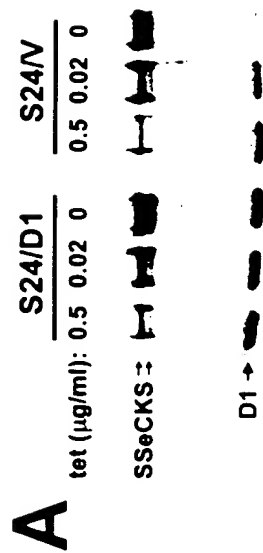
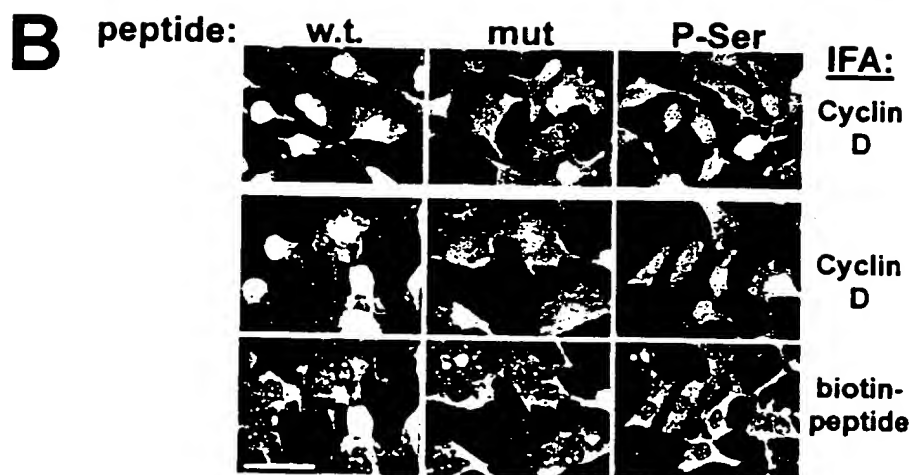
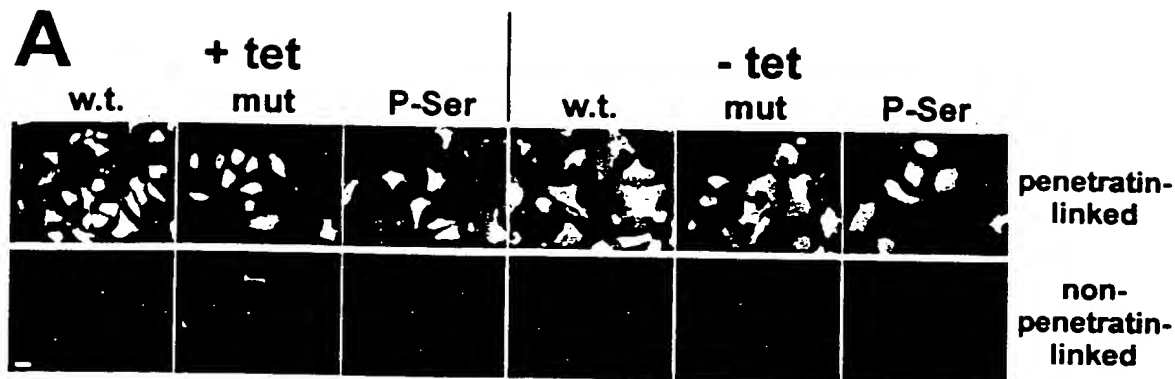


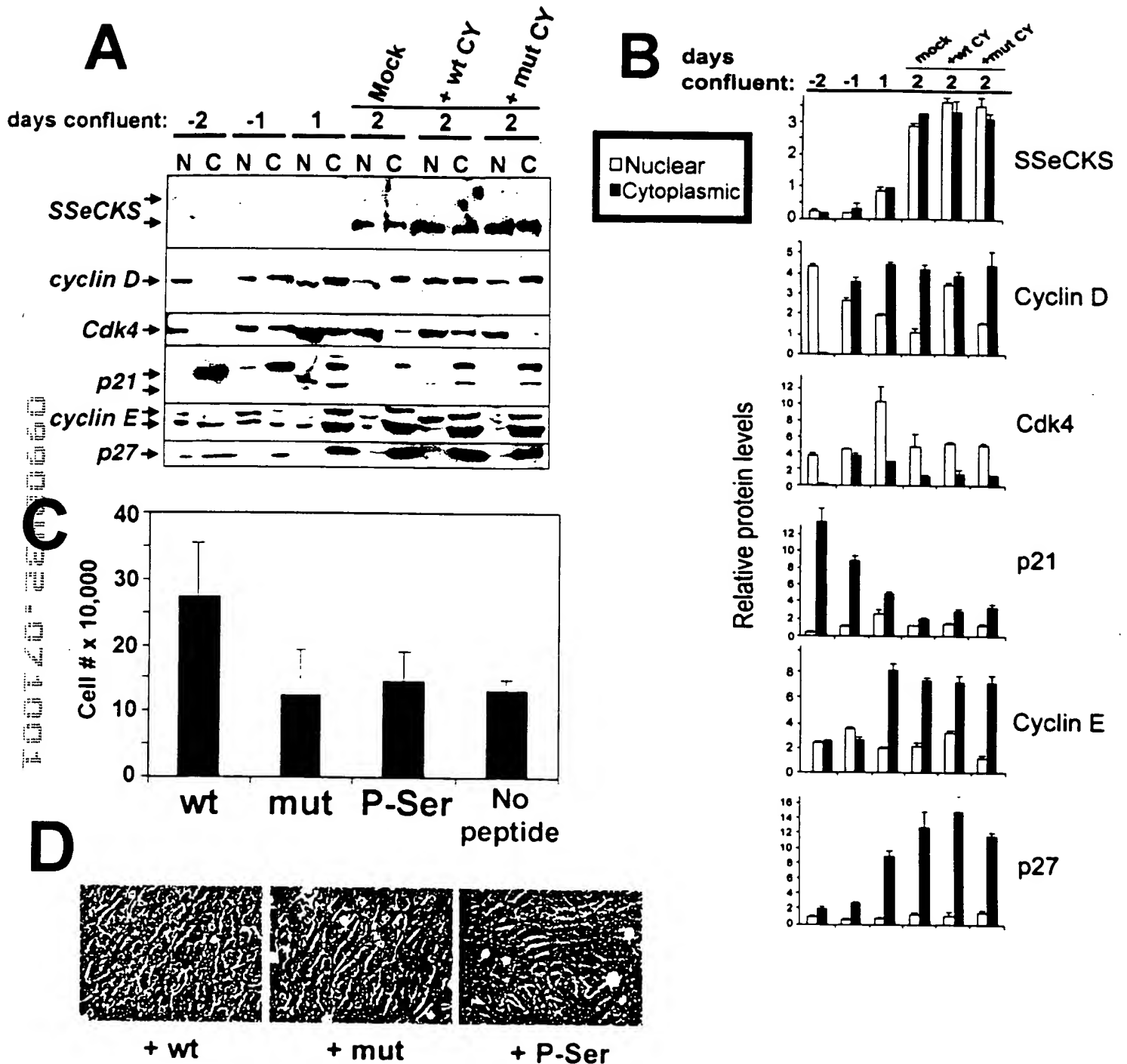
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FOOTNOTES

Figure 59

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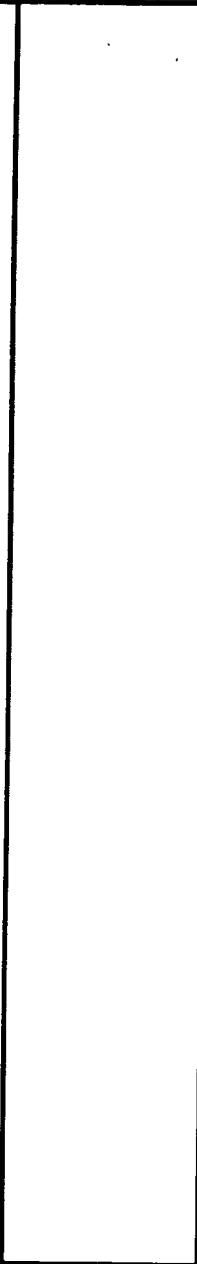
200kDa
97.5
66
44
30
21



94A3



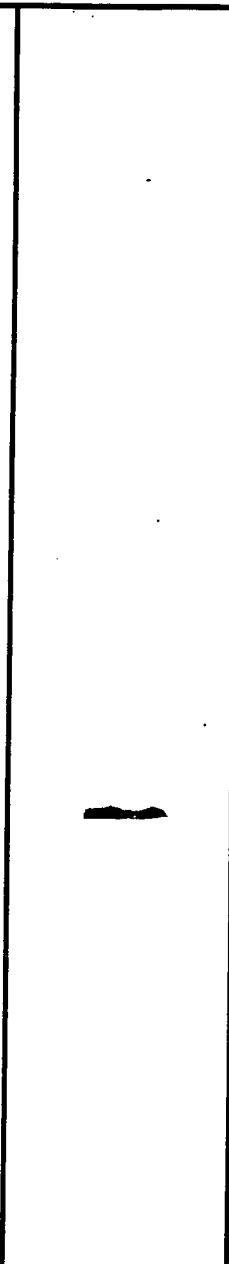
78H11



82B3



31A3



200kDa

97.5

66

44

30

21